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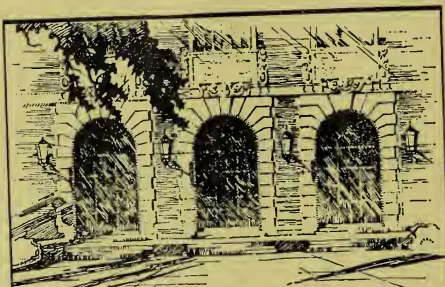
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BIBLIOGRAPHICAL CONTRIBUTIONS.

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LIBRARIAN.

No. 21.



A LIST OF THE PUBLICATIONS
OF HARVARD UNIVERSITY AND ITS OFFICERS,
WITH THE CHIEF PUBLICATIONS ON THE UNIVERSITY,

1880-1885.

Harvard University Library.

CAMBRIDGE, MASS.:

Issued by the Library of Harvard University.

1886.

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Already issued or in preparation:

A Star prefixed indicates they are not yet ready.

1. EDWARD S. HOLDEN. Index-Catalogue of Books and Memoirs on the Transits of Mercury.
 2. JUSTIN WINSOR. Shakespeare's Poems: a Bibliography of the Earlier Editions.
 3. CHARLES ELIOT NORTON. Principal books relating to the Life and Works of Michelangelo; with Notes.
 4. JUSTIN WINSOR. Pietas et Gratulatio. An Inquiry into the authorship of the several pieces.
 5. LIST OF APPARATUS in different Laboratories of the United States, available for Scientific Researches involving Accurate Measurements.
 6. THE COLLECTION OF BOOKS AND AUTOGRAPHS, bequeathed to Harvard College Library, by the Honorable Charles Sumner.
 7. WILLIAM C. LANE. The Dante Collections in the Harvard College and Boston Public Libraries.
 8. CALENDAR of the Arthur Lee Manuscripts in Harvard College Library.
 9. GEORGE LINCOLN GOODALE. The Floras of different countries.
 10. JUSTIN WINSOR. Halliwelliana: a Bibliography of the Publications of James Orchard Halliwell-Phillipps.
 11. SAMUEL H. SCUDDER. The Entomological Libraries of the United States.
 12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870-1880.
 13. SAMUEL H. SCUDDER. A Bibliography of Fossil Insects.
 14. WILLIAM H. TILLINGHAST. Notes on the Historical Hydrography of the Handkerchief Shoal in the Bahamas.
 15. J. D. WHITNEY. List of American Authors in Geology and Palæontology.
 16. RICHARD BLISS. Classified Index to the Maps in Petermann's Geographische Mittheilungen. 1855-1881.
 - *17. RICHARD BLISS. Classified Index to the Maps in the Royal Geographical Society's Publications. 1830-1883.
 18. JUSTIN WINSOR. The Bibliography of Ptolemy's Geography.
 - *19. JUSTIN WINSOR. The Kohl Collection of Early Maps.
 20. WILLIAM C. LANE. Index to Recent Reference Lists, 1884-1885.
 21. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1880-1885.
- *** The preparation of No. 21 was begun by Mr. WILLIAM C. LANE; but the main labor has been done by his colleague on the library staff, Mr. WILLIAM H. TILLINGHAST.

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OFFICIAL PUBLICATIONS.

* * This list has been prepared from responses to the following circular :—

CAMBRIDGE, GORE HALL,
Dec. 12, 1885.

DEAR SIR,—

It is intended to print in the Harvard University Bulletin a continuation of the *List of the publications of Harvard University and its Officers, 1870-1880*, issued in 1881, to cover the period from Sept. 30, 1880, to Sept. 30, 1885.

I am directed by the President to request your coöperation in making this list accurate and complete by furnishing me with the titles of the publications made by you during the term of your service so far as it falls within the period named, and the titles of such other of your publications, if any, as may be said to have grown out of your work in the University, though published after your connection with it ceased.

The classes of works intended are these :—

1. Independent works as author or editor.
2. Joint works as author or editor.
3. Contributions, bearing the author's name, to serial, periodical, or occasional publications, including transactions of learned societies.
4. Lectures delivered within or without the University, which have been subsequently printed.

As it is intended to give a separate list of the contents of the Annals of the Observatory, the Memoirs and Bulletin of the Museum of Comparative Zoölogy, the Reports of the Peabody Museum, the Library Bulletin, and the Bulletin of the Bussey Institution, contributions to these publications of the University need not be enumerated.

I enclose a blank form for your use in preparing the list, and beg that you will fill it out and return it to me not later than the 31st inst.

Respectfully yours,

WILLIAM H. TILLINGHAST,
Editor of the Quinquennial Catalogue.

THE UNIVERSITY.

Catalogus senatus academici Collegi Harvardiani, et eorum qui muneribus et officiis praeferunt, quique honoribus academicis donati sunt, in universitate quae est Cantabrigiae in civitate Massachusettensium. Cantabrigiae, apud Carol.-Guil. Sever. MDCCCLXXXV. 8°. pp. xlii., 144, 122, 78.

Edited by W. H. Tillinghast.

The Harvard University catalogue, 1880-81—1884-85. 5 vols. Cambridge. 1880-84. 8°.

1880-81, pp. 230; 1881-82, pp. 262, *map*; 1882-83, pp. 288; 1883-84, pp. 278; 1884-85, pp. 294. The first three were "published for the University by Charles W. Sever," the last two were "published by the University." The volumes for 1880-83 were edited by H. N. Wheeler, 1883-85 by W. C. Lane.

Much of the matter in the Catalogue is reprinted for distribution in the Admission, Elective, and Post-graduate pamphlets. The Departments issue their own portions separately, in some cases with additions.

Annual reports of the President and Treasurer of Harvard College, 1880-81—1884-85. 5 vols. Cambridge. 1882-86. 8°.

1880-81, pp. 144, 51; 1881-82, pp. 150, 51; 1882-83, pp. 168, 53; 1883-84, pp. 186, 50; 1884-85, pp. 210, 58.

These reports contain also the reports from the various departments and institutions of the University. The reports of the Treasurer and of several of the departments are also issued separately.

57094

Report of the committee on government to the Board of Overseers, 1881-82. Undated. Signed E. P. Seaver, Chairman. pp. 14.

Report of the committee to visit the Lawrence Scientific School, 1881-82. Dated Oct. 11, 1882. Signed Morrill Wyman, for the Committee. pp. 15.

Report of a special committee of the Board of Overseers on changes in the requisitions for admission to college. Dated Oct. 10, 1883. Signed Edwin P. Seaver, Chairman. pp. 2.

Report [of special committee (C. R. Codman, Moorfield Story, and Solomon Lincoln) to which was referred the report of the committee on Rhetoric and English literature. Accepted Jan. 9, 1884.] pp. 7.

Report on the printing of the Quinquennial catalogue of Harvard University in the English language. [By John O. Sargent and C. F. Adams, Jr., submitted Jan. 28, 1885. New York, 1885.] 8°. pp. (2), 16.

Report of the committee on the Observatory, 1884-85. Presented Feb. 18, 1885. pp. 3.

Report [of a committee (A. P. Peabody, Phillips Brooks, and John Lowell) on the petition presented by Undergraduates that attendance at morning prayers be made voluntary for all students over twenty-one years of age. Presented March 8, 1885.] pp. 6.

[Descriptions of the courses of studies at Harvard University.] 1880-1885. 8°.

Represented are: Botany, Classics and Sanskrit, Forensics, French, Geology (including Meteorology, Physical Geography and Palaeontology), History, Mathematics, Music, Political Economy, Semitic languages.

Harvard University examination papers. 1880-1885. 8°.

These include the papers of the College and the Law School. The Medical School prints its papers as an appendix to its annual catalogue.

[Programmes of the exercises at Commencement for the years 1881-85.] 4°.

Contains the names of those who receive degrees and academic honors in all departments.

Regulations of the Faculty of Harvard College. 1880, 1882, 1885. 3 pams. 8°.
1880, pp. 7; 1882, pp. 8; 1885, pp. 8.

Changes in the regulations. Dated September, 1884. pp. 1.

ARNOLD ARBORETUM.

Annual report of the Director of the Arnold Arboretum [C. S. Sargent] to the President and Fellows of Harvard College, for 1880-81-1884-85. 5 reports. 1882-1886. 8°.

1880-81, pp. 8; 1881-82, pp. 8; 1882-83, pp. 12; 1883-84, pp. 4; 1884-85, pp. 7. These reports are reprinted, with the addition of appendices, from the President's annual reports.

ASTRONOMICAL OBSERVATORY.

Annals of the Astronomical Observatory of Harvard College. Vol. xiii. Pt. 1; vol. xiv. Cambridge. 1882-85. 4°.

Contents: — xiii. (Incomplete.) Part 1. Micrometric measurements made with the equatorial telescope of fifteen inches aperture during the years 1866-1881, under the direction of Joseph Winlock and E. C. Pickering, successive Directors of the Observatory. 1882. pp. vi., 204.

xiv. Observations with the meridian photometer during the years 1879-82. By E. C. Pickering, aided by Arthur Searle and O. C. Wendell. (Published in 2 parts.) 1884-85. pp. viii., 512, plates 3.

Thirty-sixth—Fortieth annual report of the Director of the Astronomical Observatory of Harvard College. Presented to the visiting committee, 1881–1885. By Edward C. Pickering. Cambridge. 1882–86. 8°.

1881, pp. 16; 1882, pp. 15; 1883, pp. 17; 1884, pp. 12; 1885, pp. 13. Each report includes a list of the scientific articles published by the officers of the Observatory during the year. These reports are also included in the annual reports of the President.

A plan for securing observations of the variable stars. Cambridge. 1882. 8°. pp. 15.

Statement of work done at the Harvard College Observatory during the years 1877–1882. By E. C. Pickering. Cambridge. 1882. 8°. pp. 23.

Circulars relative to the collection and distribution of astronomical intelligence. Cambridge. 1883. 8°. pp. 7.

First circular of instructions for observers of variable stars, acting in co-operation with the Harvard College Observatory. [Dated Cambridge, Jan. 27, 1883.] 8°. pp. 4.

Astronomical photography. [Circular, dated Cambridge, Feb. 21, 1883.] 4°. pp. 2.

BUSSEY INSTITUTION.

Bulletin of the Bussey Institution, Jamaica Plain, Boston. Vol. ii. Part 4. 1884. Boston, John Allyn. 1884. 8°.

Contents: — 21. Preface. pp. 253–254. — 22. On the results of fodder-analyses of leaves of the yellow, or curled-dock (*Rumex crispus*), and of sprouts of the common milk-weed (*Asclepias Cornuti*). By F. H. Storer. pp. 255–260. — 23. Trials to determine the rates at which some fertilizers may be scattered by hand. By F. H. Storer. pp. 261–263. — 24. Experiments on feeding mice with painter's-putty and with other mixtures of pigments and oil. By F. H. Storer. pp. 264–279. — 25. Experiments on feeding plants with the nitrogen of vegetable mould. By F. H. Storer. pp. 280–288. — 26. Experiments on the germination of weed seeds. By F. H. Storer. pp. 289–291. — 27. Description of an attempt to assay soils by the method of sand culture. By F. H. Storer. pp. 292–316. — 28. A special instance of the resistance of clover-seeds to water. By F. H. Storer. pp. 317–323. — 29. Cherry-stones eaten by the domestic pigeon. By F. H. Storer. pp. 324–336. — 30. Notes on certain physical characters of two common grasses. By the late L. S. Ford. pp. 337–342. — 31. Some items of American experience which suggest that potassic fertilizers may perhaps act in several different ways. F. H. Storer. pp. 343–372.

The annual reports of the Dean of the Bussey Institution will be found in the President's reports.

LIBRARY.

Harvard University weekly calendar, no. 1–28, March [20th]—December, 1881; — Harvard University calendar, no. 29–157, January, 1882—June, 1885.

The calendar is issued in term-time only.

Library bulletin, no. 16, 17. Oct. 1st, 1880, Jan. 1st, 1881. Vol. ii. no. 3, 4; — Harvard University bulletin, no. 18–31. Vol. ii. no. 5 — vol. iv. no. 2. April 1, 1881 — May, 1885.

Beginning with no. 18, each Bulletin has contained official abstracts of the records of meetings of the Corporation and the Board of Overseers.

The current necrology of the graduates of the University, contributed by the editor of the Quinquennial catalogue, will be found in nos. 22, 23, 24, 26, 27, 28, 30, 31, 32 (1882–85).

Besides the more extended articles afterwards issued as "Bibliographical contributions" and enumerated below, the numbers of the Bulletin have contained the following papers:—

16. Russian nihilism, by Ivan Panin.

17. Suggestions of subjects for students' work in Physics, by Professors Wolcott Gibbs and John Trowbridge.

18. Russian sources on nihilism, by Ivan Panin. — References for Senior Forensics. Shakespeare-Bacon question and Classical studies. — University notes.

19. University notes.
20. University notes. — Records of the Centennial Convention of the Fraternity of Φ . B. K., June 30, 1881.
21. Records of the Φ . B. K. Convention in New York, Oct. 18, 1881.
- 22, 23, 25. University notes.

Bibliographical contributions. Edited by Justin Winsor. Republished from the Bulletin of Harvard University. The following numbers have been issued since Sept., 1880: —

7. WILLIAM C. LANE. The Dante collections in the Harvard College and Boston Public Libraries. Part i. 1885. pp. 18.
 8. CALENDAR of the Arthur Lee manuscripts in Harvard College Library. 1882. pp. 43.
 10. JUSTIN WINSOR. Halliwelliana: a bibliography of the publications of James Orchard Halliwell-Phillipps. 1881. pp. 30.
 12. A LIST OF THE PUBLICATIONS of Harvard University and its Officers, 1870–1880. 1881. pp. 51.
 13. SAMUEL H. SCUDDER. A bibliography of fossil insects. 1882. pp. 47.
 14. WILLIAM H. TILLINGHAST. Notes on the historical hydrography of the Handkerchief Shoal in the Bahamas. 1881. pp. (8).
 15. J. D. WHITNEY. List of American authors in Geology and Palaeontology. 1882. pp. 11.
 16. RICHARD BLISS. Classified index to the maps in Petermann's Geographische Mittheilungen, 1855–1881. 1884. pp. 55.
 18. JUSTIN WINSOR. The bibliography of Ptolemy's Geography. 1884. pp. 42.
 20. WILLIAM C. LANE. Index to recent reference lists, 1884–1885. 1885. pp. 8.
- The following are in course of publication: —
17. RICHARD BLISS. Classified index to maps in the Royal Geographical Society's publications. 1830–1883.
 19. JUSTIN WINSOR. The Kohl collection of early maps.

[List of Map portfolios in Harvard College Library as arranged by Rev. H. C. Badger. 1885.]

Fourth—Eighth report (1881–85) of Justin Winsor, librarian of Harvard University. Included in the annual reports of the President, and also printed separately.

MUSEUM OF COMPARATIVE ZOÖLOGY.

Memoirs of the Museum of Comparative Zoölogy at Harvard College. Vol. vii.—xiv. 1880–85. 4°.

Contents. — vii. (1880–82.) 1. Report on the Florida reefs. By Louis Agassiz. 1880. pp. (4), 61, plates 23. — 2. The climatic changes of later geological times: a discussion based on observations made in the Cordilleras of North America. By J. D. Whitney. 1880–82. pp. xiv., 394.

viii. (1881–84.) 1. The immature state of the Odonata. Part ii. — Subfamily *Æschnina*. By Louis Cabot. 1881. pp. 40, plates 5. — 2. Exploration of the surface fauna of the Gulf Stream under the auspices of the Coast Survey. By Alexander Agassiz. III. Pt. i. The Porpitidae and Velellidae. 1883. pp. (2), 16, plates 12. — 3. The reptiles and batrachians of North America. By Samuel Garman. Published by permission of the Kentucky Geological Survey. Yeoman Press. Frankfort, Ky. 1883 [1884]. pp. (4), xxxii., 185, plates 9.

ix. (Incomplete.) Selections from embryological monographs. Compiled by Alexander Agassiz, Walter Faxon, and E. L. Mark. 1. Crustacea; by Walter Faxon. 1882. pp. (34), plates 14. — 2. Echinodermata; by Alexander Agassiz. 1883. pp. 46, plates 15. — 3. Acalephs, by J. W. Fewkes; and Polyps, by E. L. Mark. 1884. pp. 52, plates 13.

. Each part is accompanied by a Bibliography of its subject, published in the Bulletin of the Museum. The three parts already issued will be found respectively in vol. ix. no. 6, vol. x. no. 2, and vol. xi. no. 10.

x. (Incomplete.) 1. Reports on the results of dredging, under the supervision of Alexander Agassiz, by the U. S. Coast Survey steamer "Blake." XXIV. Pt. i. Report on the Echini. By Alexander Agassiz. 1883. pp. 94, plates 32. — 2. *In press.* — 3. Results of an examination of Syrian molluscan fossils, chiefly from the range of Mount Lebanon. By C. E. Hamlin. 1884. pp. (2), 68,

plates 6.—4. A revision of the Astacidae. By Walter Faxon. Pt. i. The genera *Cambarus* and *Astacus*. 1885. pp. vi., 186, plates 10.

xi. (Incomplete.) 1. Lithological studies. A description and classification of the rocks of the Cordilleras. By M. E. Wadsworth. 1884. pp. xvi., 208, (2); xxxiii., plates 8.

xii. (1884.) The water birds of North America. By S. F. Baird, T. M. Brewer, and R. Ridgway. Issued in continuation of the publications of the Geological Survey of California. J. D. Whitney, state geologist. Vol. i. Boston. Little, Brown & Co. pp. xii., 537. Woodcuts, in part colored.

xiii. (1884.) *The same*. Vol. ii. pp. (6), 552. Woodcuts, in part colored.

xiv. (Incomplete.) 1. Pt. i. Studies from the Newport Marine Laboratory. Communicated by Alexander Agassiz. XVI. The development of osseous fishes. i. The pelagic stages of young fishes. By Alexander Agassiz and C. O. Whitman. 1885. pp. (2), 56, plates 19.

Bulletin of the Museum of Comparative Zoölogy at Harvard College, in Cambridge. Vol. vi.—xii. Cambridge. 1879–85. 8°.

Contents.—vi. (1879–80. pp. (6), 1–172, (4), 173–625; plates 23.) 1–9. Titles given in former list.—10. On some points in the structure of the embryonic *Zoëa*. By Walter Faxon. pp. 159–166, plates 2. (Oct. 1880.)—11. New species of Selachians in the Museum collection. By Samuel Garman. pp. 167–172. (Oct. 1880.)—12. Maturation, fecundation, and segmentation of *Limax campestri*, Binney. By E. L. Mark. pp. 173–625, plates 5. (Oct. 1881.)

** Nos. 1–11 from pt. i. of this volume; no. 12 forms pt. ii.

vii. (1880–84. pp. (8), 1–167 [164], xi., 165–329, xvi., 331–565; plates 13.) 1. Notes on the geology of the iron and copper districts of Lake Superior. By M. E. Wadsworth. pp. 1–164, xi., plates 6. (July, 1880.)—2. The felsites and their associated rocks north of Boston. By J. S. Diller. pp. 165–180. (May, 1881.)—3. On an occurrence of gold in Maine. By M. E. Wadsworth. pp. 181. (May, 1881.)—4. A microscopical study of the iron ore, or peridotite of Iron Mine Hill, Cumberland, R. I. By M. E. Wadsworth. pp. 183–187. (May, 1881.)—5. Observations upon the physical geography and geology of Mount Ktaadn and the adjacent district. By C. E. Hamlin. pp. 189–224. Plate and map. (June, 1881.)—6. Report on the recent additions of fossil plants to the museum collections. By Léo Lesquereux. pp. 225–230. (Oct. 1881.)—7. The great dike at Hough's Neck, Quincy, Mass. By J. E. Wolff. pp. 231–242. (July, 1882.)—8. On some specimens of Permian fossil plants from Colorado. By Léo Lesquereux. pp. 243–247. (Oct. 1882.)—9. On the relations of the triassic traps and sandstones of the eastern United States. By W. M. Davis. pp. 249–309, plates 3. (Jan. 1883.)—10. The folded Helderberg limestones east of the Catskills. By W. M. Davis. pp. 311–329, plates 2. (Jan. 1883.)—11. The azoic system and its proposed subdivisions. By J. D. Whitney and M. E. Wadsworth. pp. xvi., 331–565. (Aug. 1884.)

viii. (1880–81. pp. iv., 284, plates 39.) 1. Reports on the results of dredging by the U. S. C. S. Str. “Blake.” VIII. Études préliminaires sur les Crustacés par Alph. Milne-Edwards. 1^{re} partie. pp. 1–68, plates 2. (Dec. 1880.)—2. Reports on the results of dredging by the U. S. C. S. Str. “Blake.” IX. Preliminary report on the Echini. By Alexander Agassiz. pp. 69–84. (Dec. 1880.)—3. New and little-known reptiles and fishes in the museum collections. By Samuel Garman. pp. 85–93. (Feb. 1881.)—4. List of dredging stations occupied during the year 1880 by the U. S. C. S. Str. “Blake.” pp. 95–98. (Feb. 1881.)—5. Reports on the results of dredging by the U. S. C. S. Str. “Blake.” X. Report on the Cephalopods, and on some additional species dredged by the U. S. Fish Commission Str. “Fish Hawk,” during the season of 1880. By A. E. Verrill. pp. 99–116, plates 8. (March, 1881.)—6. The stomach and genital organs of *Astrophytidae*. By Theodore Lyman. pp. 117–125, plates 2. (Feb. 1881.)—7. Reports on the results of dredging by the U. S. C. S. Str. “Blake.” XI. Report on the *Acalephæ*. By J. W. Fewkes. pp. 127–140, plates 4. (March, 1881.)—8. Studies of the jelly-fishes of Narragansett Bay. By J. W. Fewkes. pp. 141–182, plates 10. (Feb. 1881.)—9. List of mammals collected by Dr. Edward Palmer in north-eastern Mexico, with field-notes by the collector. By J. A. Allen. pp. 183–189.—10. The Trilobite: new and old evidence relating to its organization. By C. D. Walcott. pp. 191–230, plates 6. (March, 1881.)—11. Reports on the results of dredging by the U. S. C. S. Str. “Blake.” XII. Report on the Selachians. By Samuel Garman. pp. 231–237. (March, 1881.)—12. Reports on the results of dredging by the U. S. C. S. Str. “Blake.” XIII. Report on the *Pycnogonida*. By B. Wilson. pp. 239–256, plates 5. (March, 1881.)—13. On some crustacean deformities. By Walter Faxon. pp. 257–274, plates 2. (March, 1881.)—14. The Devonian insects of New Brunswick. By Dr. H. A. Hagen. pp. 275–284. (March, 1881.)

ix. (1881–82. pp. (4), 310, plates 11.) 1. Reports on the results of dredging by the U. S. C. S.

Str. "Blake." XIV. Description sommaire des espèces nouvelles d'Astéries, par Edmond Perrier. pp. 1-31. (June, 1881.) — 2. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XV. Preliminary report on the Mollusca. By W. H. Dall. pp. 33-144. (Dec. 1881.) — 3. Letter no. 5. To C. P. Patterson, Supt. U. S. C. S., from Alexander Agassiz, on the explorations in the vicinity of the Tortugas, during March and April, 1881. pp. 145-149. (July, 1881.) — 4. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XVI. Preliminary report on the Comatulæ. By P. H. Carpenter. pp. 151-170, plate 1. (Oct. 1881.) — 5. Observations on the species of the genus *Par-tula* Fér., with a bibliographical catalogue of all the species. By W. D. Hartman. pp. 171-196, plates 2. (Dec. 1881.) — 6. Bibliography to accompany "Selections from embryological monographs." i. Crustacea. By Walter Faxon. pp. 197-250. (March, 1882.) — 7. Explorations of the surface fauna of the Gulf Stream, under the auspices of the U. S. Coast Survey. By Alexander Agassiz. i. Notes on *Acalephs* from the Tortugas, with a description of new genera and species. By J. W. Fewkes. pp. 251-289, plates 7. (April, 1882.) — 8. On the *Acalephæ* of the east coast of New England. By J. W. Fewkes. pp. 291-310, plate 1. (April, 1882.)

x. (1882-1883. pp. (4), 287, plates 31.) i. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XVII. Report on the Crustacea. Pt. i. Decapoda. By S. J. Smith. pp. 1-108, plates 16. (June, 1882.) — 2. Bibliography to accompany "Selections from embryological monographs." ii. Echinodermata. By Alexander Agassiz. pp. 109-134. (Aug. 1882.) — 3. On a revision of the ethmoid bone in the Mammalia. By Harrison Allen. pp. 135-164, plates 7. (Nov. 1882.) — 4. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XVIII. The stalked Crinoids of the Caribbean Sea. By P. H. Carpenter. pp. 165-181. (Dec. 1882.) — 5. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XIX. Report on the fishes. By G. Brown Goode and T. H. Bean. pp. 183-226. (April, 1883.) — 6. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XX. Report on the Ophiuroidea. By Theodore Lyman. pp. 227-287, plates 8. (May, 1883.)

xi. (1883-85. pp. (4), 275, plates 35.) i. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XXI. Report on the Anthozoa and on some additional species dredged by the "Blake" in 1878-79, and by the U. S. Fish Commission Str. "Fish Hawk" in 1880-82. By A. E. Verrill. pp. 1-72, plates 8. (July, 1883.) — 2. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XXII. A chapter in the history of the Gulf Stream. By Alexander Agassiz. pp. 73-77. (May, 1883.) — 3. Exploration of the surface fauna of the Gulf Stream, under the auspices of the U. S. Coast Survey. By Alexander Agassiz. iv. On a few *Medusæ* from the Bermudas. By J. W. Fewkes. pp. 79-90, plate 1. (Aug. 1883.) — 4. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XXIII. Report on the Isopoda. By Oscar Harger. pp. 91-104, plates 4. (Sept. 1883.) — 5. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XXV. Supplementary report on the Blake Cephalopods. By A. E. Verrill. pp. 105-115, plates 3. (Oct. 1883.) — 6. Descriptions of two species of *Octopus* from California. By A. E. Verrill. pp. 117-124, plates 3. (Oct. 1883.) — 7. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XXVI. Verzeichniss der von den United States Coast Survey steamers "Hassler" und "Blake" von 1867 zu 1879 gesammelten Myzostomiden. Von Dr. L. v. Graff. pp. 125-133. (Nov. 1883.) — 8. A supplement to the fifth volume of the Terrestrial air-breathing mollusks of the United States and adjacent territories. By W. G. Binney. pp. 135-166, plates 4. (Dec. 1883.) — 9. Studies from the Newport marine zoölogical laboratory. Communicated by Alexander Agassiz. XIII. On the development of certain worm larvæ. By J. W. Fewkes. pp. 167-208, plates 8. (Dec. 1883.) — 10. Bibliography to accompany "Selections from embryological monographs." III. *Acalephs*. By J. W. Fewkes. pp. 209-238. (July, 1884.) — 11. Studies from the Newport marine laboratory. XV. On the development of *Agalma*. By J. W. Fewkes. pp. 239-275, plates 4. (July, 1885.)

xii. (Incomplete.) i. *Chlamydoselachus anguineus* Garm. — A living species of cladodont shark. By S. Garman. pp. 1-35, plates 20. (July, 1885.)

Annual report of the Curator [Alexander Agassiz] of the Museum of Comparative Zoölogy at Harvard College, to the President and Fellows of Harvard College, for 1880-81—1883-84; — Twenty-fifth annual report . . . for 1884-85. 5 nos. Cambridge. 1881-85. 8°.

1880-81, pp. 32; 1881-82, pp. 27; 1882-83, pp. 32; 1883-84, pp. 34; 1884-85, pp. 36. These pamphlets contain beside the main reports of the Curator, which are also included in the reports of the President, special reports by officers of the Museum on the departments placed under their charge respectively, and lists of the publications of the Museum.

PEABODY MUSEUM OF AMERICAN ARCHÆOLOGY AND ETHNOLOGY.

Fourteenth, fifteenth, sixteenth, and seventeenth annual reports of the trustees of the Peabody Museum of American Archæology and Ethnology, presented to the President and Fellows of Harvard College, May, 1881, June, 1882, March, 1884 [consisting of the reports of the Treasurer and of the Curator (F. W. Putnam), with special papers]. Vol. iii. nos. 1-4.

Contents. — 14. (1881. pp. 1-41.) No special papers.

15. (1882. pp. 43-148.) *Papers.* — Notes on the copper objects from North and South America, contained in the collections of the Peabody Museum. pp. 83-148.

16.-17. (1884. pp. 149-384.) *Papers.* — On the social and political position of woman among the Huron-Iroquois tribes. By Lucien Carr. pp. 207-232. — Notes upon human remains from caves in Coahuila, Mexico. By Cordelia A. Studley. pp. 233-259. — The white buffalo festival of the Unc-papas, pp. 260-275; — The elk mystery or festival of the Ogallala Sioux, pp. 276-288; — The religious ceremony of the four winds as observed by the Santee Sioux, pp. 289-295; — The shadow or ghost lodge; a ceremony of the Ogallala Sioux, pp. 296-307; — The Wa-wan, or pipe-dance of the Omahas, pp. 308-333. By Alice C. Fletcher. — Report on the meteoric iron from the altar mounds in the Little Miami valley. By L. P. Kinnicutt. pp. 381-384.

The eighteenth report, made in the spring of 1885, will be published with the nineteenth report in 1886.

PUBLICATIONS RELATING TO THE UNIVERSITY.

*** *The Harvard Register* has not been analyzed in preparing the following list. In general the search has been confined to the resources of the College Library.

DESCRIPTIVE AND CONTROVERSIAL.

Harvard and its surroundings. Subscription (fourth) edition. By Moses King. Cambridge. 1882. sq. 16°. pp. (2), 100. 40 *albertypes* and 30 *wdcts.*

The same. (Fifth edition revised.) By Moses King. Cambridge. 1883. sq. 16°. pp. (2), 100. 39 *albertypes* and 30 *wdcts.*

The same. Subscription (sixth) edition. By Moses King. Cambridge. 1884. sm. 4°. pp. (2), 100. 40 *albertypes* and 30 *wdcts.*

The visitor's guide to Harvard University. Cambridge. Charles W. Sever. 1885. 16°. pp. 64.

An historical sketch of Harvard University. By Professor Adrien Jacquinot. Translated by Henry Norman, with the permission of the author. [Cambridge. 1881.] 8°. pp. (8).

Harvard Register, iii., 385-392. A translation of the first article in the series quoted below, no. 1.

Services at the dedication of a mural monument to James Walker, D.D., LL.D., in the Harvard Church in Charlestown in the city of Boston, January 14, 1883. Cambridge. 1884. 8°. pp. 64. *Front.*

Containing Commemorative discourse by the Rev. W. O. White, and addresses by President C. W. Eliot, Professor Joseph Lovering, and the Rev. Pitt Dillingham.

Articles in periodicals. — 1. *L'Université Harvard.* M. Jacquinot. *Revue Internationale de l'Enseignement.* Paris. 1881-1884; i., 50; ii., 23, 224, 319; iv., 530; vii., 262. — 2. [The earliest engraving of the buildings of Harvard College.] F. E. Oliver. *Proc. Mass. Hist. Soc.*, Feb. 1881;

xviii., 318-322, pl. — 3. The fine arts at Harvard. *Californian*, Feb. 1881. — 4. Censures on Harvard College in 1672. W. B. Trask. *New Eng. Hist. and Geneal. Register*, April, 1881; xxxv., 121-123, fac-sim. — 5. Agnosticism at Harvard. E. L. Youmans. *Popular Science Monthly*, June, 1881; xix., 266. — 6. Price's print of Harvard College. Geo. Dexter. *Nation*, 29 Sept., 1881; xxxiii., 253. — 7. The building of Harvard Hall. W. B. Trask. *New Eng. Hist. and Geneal. Register*, Oct. 1881; xxxv., 360. — 8. Undergraduate life at Harvard. W. S. Kennedy. *The Continent*, 10 Jan., 1883; iii., 53-56. — 9. Athletic sports at Harvard. A. McF. Davis. *Overland*, June, 1883; series II., i., 560-563. — 10. Honorary degrees. *Nation*, 5 July, 1883; xxxvii., 6. — 11. [Description of Sever Hallin] Recent architecture in America. Mrs. Schuyler van Rensselaer. *Century*, May, 1884; xxviii., 59, *wdet.*

Alumni.

Biographical sketches of graduates of Harvard University, in Cambridge, Massachusetts. By John Langdon Sibley, Librarian emeritus of Harvard University. Vol. II., 1659-1677; III., 1678-1689. Cambridge, 1881, 1885. 8°. pp. viii., 557; viii., 457.

The University Bulletin contains a current necrology of graduates. On Commencement day of each year the principal Boston newspapers print a list of deaths which have been reported since the last Commencement. The entries in both cases are limited to a statement of the date and place of birth and death. The Quinquennial catalogue attempts to give the year of death of deceased graduates. See also the Class reports described on page 15.

John Harvard.

Memorial of John Harvard. The gift to Harvard University of Samuel James Bridge. Ceremonies at the unveiling of the statue, Oct. 15, 1884. With an address by Geo. E. Ellis. Cambridge. 1884. 8°. pp. 19. *Front.*

John Harvard and his ancestry. By Henry F. Waters. Boston. 1885. 12°. pp. 24.

Reprinted from the *New Eng. Hist. and Geneal. Register*, July, 1885; xxxix., 265-284.

John Harvard, St. Saviour's, Southwark, and Harvard University, U. S. A. By William Rendle, F.R.C.S. [London. 1885.] 8°. pp. 24.

In the *Genealogist*, April, 1884, Mr. Rendle published an article entitled: "Harvard University, U. S., and the Harvards of Southwark." A few extracts are given in *Proc. Mass. Hist. Soc.*, May, 1884; series II., i., 183-186.

Emmanuel College, Cambridge. Commemoration of the three hundredth anniversary of the foundation. MDCCCLXXXIV. n. p. n. d. pp. (2), 99. plates 2.

Contains two addresses by Professor C. E. Norton relating to John Harvard; also a fac-simile of Harvard's signature (p. 66).

Articles in periodicals. — 1. [Dr. Bennett's copy of the Cambridge register, 1597-1649.] *Proc. Mass. Hist. Soc.*, Nov. 1882; xx., 22. — 2. [John Harvard and the East India co.] E. E. Hale. *Ibid.*, xx., 24. — 3. John Harvard. Col. J. L. Chester. *New Eng. Hist. and Geneal. Register*, July, 1882; xxxvi., 319. — 4. [The proposed statue of John Harvard.] Remarks by G. E. Ellis, Chas. Deane, R. C. Winthrop. *Proc. Mass. Hist. Soc.*, Oct. 1883; xx., 345-350. — 5. [Proposed memorial window at Emmanuel College.] *Ibid.*, Feb. 1884; II., i., 42. — 6. [Mr. Rendle's investigation.] G. E. Ellis. *Ibid.*, May, 1884; II., i., 183-186. — 7. [The statue of John Harvard.] Chas. Deane. *Ibid.*, June, 1884; II., i., 219. — 8. John Harvard. W. Rendle. *Athenaeum*, 7 June, 1884, i., p. 727. [This letter was printed in the *Boston Advertiser*, 21 June, 1884, and erroneously ascribed to the *Academy*.] — 9. John Harvard and Emmanuel College. *New Eng. Hist. and Geneal. Register*, July, 1884; xxxviii., 343. — 10. Emmanuel College. *Nation*, 28 Aug., 1884; xxxix., 174. — 11. [The inscription in the base of the Harvard statue.] R. C. Winthrop. *Proc. Mass. Hist. Soc.*, Nov. 1884; II., i., 257. — 12. Harvards of Bath, Eng. A. M. Haines. *New Eng. Hist. and Geneal. Register*, April, 1885, xxxix., 185. — 13. John Harvard's English home: a caveat in behalf of Devonshire. Frances B. James. Read before the New Eng. Hist. Geneal. Society, June 3, 1885. *Boston Even. Transcript*, June 12, 1885. — 14. An outline of Mr. Water's discoveries was given by President Eliot at the Alumni dinner, on Commencement day, 1885, and printed in the *Boston Advertiser*, 25 June, 1885. — 15. John Harvard. *Nation*, 2 July, 1885; xli., 8.

The Elective System and College Discipline.

An account of the elective courses given at Harvard College. Published by the editors of the Harvard daily Echo. 1881. 12°. pp. 166.

The new departure in college education. Being a reply to President Eliot's defence of it in New York, Feb. 24, 1885. By James McCosh. New York. 1885. 8°. pp. 23.

See No. 16 below.

Articles in periodicals. — 1. Yale and Harvard. *Nation*, 19 Jan., 1882; xxxiv., 50. — 2. Paternal college government. A father. *Ibid.*, 26 Jan., 1882; xxxiv., 75. — 3. The raised standards of our colleges. L. N. D. *Ibid.*, 2 Feb., 1882; xxxiv., 98. — 4. College discipline. P. H. *Ibid.*, 16 Feb., 1882; xxxiv., 142. — 5. The American college *vs.* the European university. W. G. Frost; C. W. Clapp. *Ibid.*, 16 Feb., 1882; xxxiv., 142-144. — 6. College discipline. C. W. Clapp. *Ibid.*, 22 March, 1882; xxxiv., 185. — 7. The elective system in education. C. W. Eliot. *Our Continent*, 22 Feb., 1882; i., 24. — 8. The working of the elective system at Harvard. W. G. Hale. *Nation*, 13 April, 1882; xxxiv., 314. — 9. [The elective system at Harvard College.] *American*, Oct. 21, 1882; v., 21. — 10. Religious discipline at Harvard. A student. *Nation*, 25 Jan., 1883; xxxvi., 80. — 11. Religion and honor at Harvard. B. *Nation*, 1 Feb., 1883; xxxvi., 103. — 12. Religious discipline at Harvard. A graduate. *Nation*, 8 Feb., 1883; xxxvi., 124. — 13. The elective system at Harvard. *Boston Advertiser*, 18 March, 1883. — 14. The regulation of college sports. *Nation*, 28 Feb., 1884; xxxviii., 182. — 15. Gentlemanliness in college athletics. A. L. Ripley. *New Englander*, Jan. 1885; xlv., 141. — 16. College government. C. W. Eliot. Report of a paper read before the Nineteenth Century club, in New York, Feb. 24, 1885. *Boston Daily Advertiser*, 25 Feb., 1884. — 17. Professionalism in college athletics: Cause and remedy. W. I. Badger. *New Englander*, March, 1885; xlv., 280-283. — 18. [Voluntary attendance at prayers.] *American*. 25 April, 1885; ix., 452. — 19. What is academic freedom? A. F. West. *N. American Review*, May, 1885; cxl., 432-444.

The Performance of Oedipus Tyrannus.

Scenes from Oedipus the King as performed at Harvard in May, 1881. Photographed with the electric light by James Notman. 14 *photographs*, $8\frac{1}{4} \times 5\frac{1}{2}$ in.

Thirty-three photographs of the actors in Oedipus the King as performed in Sanders Theatre, May, 1881, by members of Harvard College. James Notman, photographer.

An account of the Harvard Greek play. By Henry Norman. Boston. 1882. 16°. pp. 129. 15 *plates*.

"A partial bibliography of the Harvard Greek play," giving references to newspaper articles, *etc.* pp. 127-129.

The Place of the Classics in Education.

* * The following list comprises articles called forth by the Phi Beta Kappa oration of Charles Francis Adams, Jr., in 1883, and by the changes proposed at Harvard College in the requirements for admission and the prescribed studies in 1884.

1. A college fetich. An address delivered before the Harvard chapter of the Fraternity of the Phi Beta Kappa, in Sanders Theatre, Cambridge, June 28, 1883. By Charles Francis Adams, Jr. Boston. 1883. pp. 38.

A second edition was printed from the same plates. The oration was printed in full in the *Boston Daily Herald*, 27 June, 1883, and in the *Independent*, 9 Aug., 1883.

2. The question of a division of the philosophical faculty. Inaugural address on assuming the rectorship of the university of Berlin, delivered in the aula of the university on October 15, 1880, by Dr. August Wilhelm Hofmann, professor of chemistry. Second edition, with an appendix containing two opinions on the admission to the university of graduates of *Realschulen*, presented to his excellency, the royal minister

of public instruction, by the philosophical faculty of the royal Frederick-William University, in the years 1869 and 1880. Boston. 1883. 16°. pp. viii., 77.

The preface was written by Professor J. W. White.

3. The Greek question: remarks made at the dinner of the Harvard Club of Rhode Island, Newport, Aug. 25, 1883. By Josiah Parsons Cooke. [From advance sheets of the *Popular Science Monthly*.] [1883] 8°. pp. 6.

Appeared in the *Popular Science Mo.*, Nov. 1883; xxiv., 1-6. Also in *Scientific culture and other essays*. By Josiah Parsons Cooke. Second edition; with additions. N. Y., 1885. 12°. pp. 203-213.

4. A college fetich. . . . By Charles Francis Adams, Jr. Third edition, with supplementary matter. Boston, etc. 1884. 8°. pp. 71.

The appendix quotes a speech by Mr. Geo. S. Merriam at a meeting of Yale alumni (175), a paper by Professor James of the University of Pennsylvania on the classical question in Germany (42), and an article by Professor E. L. Youmans on the same question as discussed in England (50).

5. The Greek question and answer. By Louis Dyer, assistant professor of Greek and Latin in Harvard College. A paper read before the Harvard Club of Rhode Island in Providence, Feb. 25, 1884. Privately printed. Cambridge. 1884. 4°. pp. 19.

6. Greek and what next? An address. Solomos' hymn to liberty, a poem. Read before the Alumni Association of Brown University, June 17, 1884, by Arnold Green. Providence. 1884. 8°. pp. 52.

7. Not "A college fetish." An address in reply to the address of Charles Francis Adams, Jr., delivered before the Harvard chapter of the Fraternity of the Phi Beta Kappa, at Cambridge, June 28, 1883, by D. H. Chamberlain. With portions of articles by Professors Zeller, Fisher, and Peabody. Boston. 1884. 8°. pp. iv., 5-93.

This address before it was printed was delivered before the Yale Kent club, at New Haven, March 11, 1884; before the Amherst chapter of the Phi Beta Kappa, May 2; at Phillips Academy, Andover, May 23; at Williston Seminary, Easthampton, May 10; before the Phi Beta Kappa of the University of Vermont, June 24; and before the American Institute of Instruction, at Martha's Vineyard, July 9. The appendix contains extracts from nos. 107, 54, 11.

8. The language question. A résumé. By Prof. F. V. N. Painter, of Roanoke College, Virginia. [From the "*Roanoke Collegian*."] Cambridge. 1884. 8°. pp. 7.

9. President Porter's pamphlet: "The new departure in college education," deals in part with the Greek question. See p. 9.

Articles in monthly and quarterly periodicals, etc. — *Atlantic Monthly*: 10. What instruction should be given in our colleges? A. S. Bolles. Nov. 1883. — 11. The study of Greek. A. P. Peabody. Jan. 1884. — *American Catholic Quarterly*: 12. What is a liberal education? T. Hughes. Jan. 1885. — 13. The classics in modern higher education. C. G. Herbermann. *Ibid.* — *Bibliotheca Sacra*: 14. A plea for a liberal education. J. K. Newton. Jan. 1885. — 15. Greek among required studies. W. G. Frost. April, 1885. — *Century*: 16. Massachusetts French. [Poem.] Bell F. Hapgood. Sept. 1883. — 17. The future of the classics. [Poem.] H. C. Bunner. Oct. 1883. — 18. What is a liberal education? A paper read at the Johns Hopkins University, Feb. 22, 1884. C. W. Eliot. June, 1884. — *Education*: 19. Modern languages and the college. C. A. Eggert. May, 1884. — 20. A classification of knowledge. G. P. Brown. *Ibid.* — 21. Proposed additions to, and subtractions from, our education. G. F. Magoun. *Ibid.* 22. Modern languages as a college discipline. A. M. Elliott. Sept. 1884. — 23. The study of English. E. Bouton. *Ibid.* — 24. The course of study in Princeton College. J. McCosh. March, 1885. [Substance of report to trustees, Nov. 1884.] — 25. A criticism of the classical controversy. J. K. Newton. May, 1885. — 26. The preparatory schools and the modern languages equivalent for the Greek. Read before the Mass. classical and high school teachers' association, April 10, 1885. C. E. Fay. July, 1885. — 27. Methods of classical instruction. Read before the faculty of Oberlin College, March 17, 1885. A. C. Richardson. *Ibid.* — *Harper's New Monthly Magazine*: 28. Editor's Easy Chair. [G. W. Curtis.] Sept. 1883. — *Manhattan*: 29. [Charles Francis Adams on classical education.] Sept. 1883. — *New Englander*: — 30. The classics and the Yale curriculum.

T. Peck. March, 1885.—31. A criticism from Yale of the latest Harvard educational move. Greek and the bachelor's degree. May, 1885. [Written under the impression that Greek had been removed from the requirements for admission and from the prescribed studies.]—*North American Review*: 32. Must the classics go? A. F. West. Feb. 1884.—33. A plea for modern languages. C. A. Eggert. April, 1884.—34. The demand of the industrial spirit. Chas. Dudley Warner. Sept. 1884. [This is, in substance, the Phi Beta Kappa address noted under no. 129.]—*Overland*: 35. Charles Francis Adams, Jr., on Greek and French. Sept. 1883.—36. Small Latin and less Greek. G. B. Merrill. Oct. 1883.—*Popular Science Monthly*: 37. The dead language superstition. Sept. 1883.—38. "The Greek question." J. P. Cooke. Nov. 1883. [See no. 3.]—39. The current study of classics a failure. Nov. 1883.—40. Dead language studies necessarily a failure. Dec. 1883.—41. Queer defences of the classics. *Ibid.*—42. The classical question in Germany. E. J. James. Jan. 1884.—43. Science in classical schools. G. F. Forbes. *Ibid.*—44. "Church-and-state" function of the dead languages. *Ibid.*—45. Learning one language by studying others. *Ibid.*—45^a. Extract. [See no. 176.] *Ibid.*—46. Education without dead languages. Feb. 1884.—47. Science *versus* the classics. C. A. Eggert. March, 1884.—48. Yale professors on college studies. May, 1884.—49. President Eliot on liberal education. July, 1884.—50. The college fetich once more. Sept. 1884.—51. Further remarks on the Greek question. J. P. Cooke. Oct. 1884. [Reprinted in *Scientific culture* and further remarks on the Greek question, 1884, and in *Scientific culture* and other essays, N. Y., 1885. pp. 214-226.]—52. The German testimony on the classics question. F. A. Fernald. Nov. 1884.—*Princeton Review*: 53. "A college fetich." Noah Porter. Sept. 1883.—54. The study of Greek. G. P. Fisher. March, 1884.—55. Our colleges before the country. W. G. Sumner. *Ibid.*—56. What is education? Bonamy Price. July, 1884.—57. Greek and a liberal education. Noah Porter. Sept. 1884.—*Unitarian Review*: 58. Editors' Note-Book. Oct. 1884.—59. Greek philosophy in the higher education. E. B. Andrews. June, 1885.—*New Hampshire state teachers' association*, meeting in 1883: 60. The Greek question. Elsie Dow. Annual report of the superintendent of public instruction. Concord. 1884. pp. 286-293.—61. Discussion by A. W. Bachelor, E. R. Ruggles, and others. *Ibid.* p. 268.—Meeting in 1884: 62. The Greek question once more. J. H. Wright. Annual report of the superintendent of public instruction. Concord. 1885. pp. 267-291.—*American institute of instruction*: 63. The education we need. J. H. Seelye. Lectures and proceedings for 1883. Boston. 12^o—63^a. Ivy oration. J. J. Chapman. Class of 1884. *Baccalaureate sermon*, etc. Cambridge. 1884. p. 38.

Articles in weekly papers.—*American*: 64. Mr. Adams on the classics, 14 July, 1883.—*Cambridge Tribune*, 1883: 65. Editorial, 6 July.—*Christian Leader*: 66. Editorial, 5 July, 1883.—*Christian Register*, 1883: 67. Editorials, 5, 19 July.—67^a. Extracts from nos. 68, 173, 2 Aug.; from 91, 6 Sept.—*Christian at Work*: 68. See no. 67^a.—*Commonwealth*, 1883: 69. At old Harvard, 30 June.—69^a. Extract from no. 174, 28 July; from no. 116, 11 Aug.—70. College curricula. The radical defect of modern education. J. R. Buchanan. 18 Aug.—*Continent*: 70^a. Extract from no. 175, 21 Nov., 1883.—*Courier*: 71. "A college fetich," 1 July, 1883.—*Critic*: 72. Greek in American colleges. J. H. Morse. 25 Aug., 1883.—*Independent*, 1883: 73. Our Boston Letter, 19 July.—74. Mr. Adams's arraignment of the Greek language, 9 Aug.—75. Some questions, 23 Aug.—*Index*, 1883: 76. Note, 5 July.—77. Greek and Latin. B. W. Ball. 19 July.—78. Learning languages. F. M. H. 23 Aug.—*Journal of Education*, 1883: 79. Greek, a prime and necessary factor of scientific education. A reply to Charles Francis Adams's Phi Beta Kappa address. E. R. Humphreys. 9 Aug.—80. Mr. Adams's college fetich. Brief reply to Dr. Humphreys' paper. *Inquirer*. 23 Aug.—81. The study of Greek. E. Conant. 30 Aug.—82. College fetich again. B. H. Wright. 13 Sept.—83. The college fetich once more. Didaskalos. 4 Oct.—84. Latin and Greek studies. V. C. Dibble. 25 Oct.—85. The rôle of letters and the sciences in education. Professor Bernès. *Ibid.*, and 8 Nov.—86. "Didaskalos" and the college fetich. C. H. Ford. 15 Nov.—1884: 87. Changes needed in the curriculum of our schools. A. C. True. 24 Jan.—88. A grave question. C. A. Eggert. 28 Aug.—89. The classical controversy, 25 Sept.—*Nation*, 1883: 90. The use of going to college, 16 Aug.—91. The place of Greek in a college course. H. G. P. 30 Aug.—92. Greek at Harvard. A recent graduate. 6 Sept.—93. Greek and English. R. 13 Sept.—94. President Porter on the study of Anglo-Saxon. F. B. Gummere. *Ibid.*—95. The Greek question once more. A. A. 20 Sept.—96. The critics of Mr. C. F. Adams, Jr. F. F. 27 Sept.—97. The value of translating Greek. H. E. A. *Ibid.*—98. Improved methods of teaching the classics. E. R. Humphreys. *Ibid.*—99. [The Greek question.] C. B. Spahr. 11 Oct.—100. Why the best pupils take the classics. G. Hempl. *Ibid.*—101. Exclusive preference for the classics. W. M. B. 8 Nov.—102. Luther and the classics. *Ibid.*

—103. The study of Greek. F. G. Bromberg. 15 Nov. —104. The classics. W. Flagg. 29 Nov. —105. The discipline of science study. Fair Play. 6 Dec. —1884: 106. Greek or barbarian? C. A. Eggert. 7 Feb. —107. Professor Zeller on classical discipline. Teacher of German. 3 April. [Ueber die Bedeutung der Sprache und des Sprachunterrichts für das geistige Leben. E. Zeller. — *Deutsche Rundschau*. März, 1884. See also no. 7.] —108. Classical education. A. 17 April. —109. Review of President Porter's article (no. 57). 18 Sept. —110. The meaning of "A. B." R. W. G. Welling. 25 Sept. —111. A contribution to the "Greek question." K. Francke. 11 Dec. —1885: 112. The Greek of the future. W. W. Goodwin. 29 Jan. —113. Preparatory Greek and Latin. J. M. Whiton. 13 Aug. —*Science*: 114. President Eliot on a liberal education. S. Newcomb. 13 June, 1884. —*Watchman*: 115. College commencements, 5 July, 1883. —*Woman's Journal*: 116. Girls and Greek. T. W. Higginson. 7 July, 1883. See also no. 69^a.

Articles in daily papers. — *Boston Advertiser*, 1883: 117. The study of the classics. 29 June. —118. Editorial, 4 July. —119. The war against the classics, 14 Aug. —120. Review of the report of the President of Brown University. 6 Sept. —121. [Professor Hofmann and the Greek question.] 19 Oct. —122. Literature and science. Matthew Arnold. Address at Dartmouth college. 10 Nov. —123. The college fetich, 27 Dec. —1884: 124. Review of the 3d ed. of Adams's College fetich, 2 Feb. —125. Notice of Green's address before the Brown alumni [no. 6.], 18 June. —126, 127. [Reduction of prescribed studies at Harvard.] 20, 23 June. —128. Discussion at Commencement, by W. G. Russell, etc. 26 June. —129. Educational drift. Phi Beta Kappa address at Dartmouth. C. D. Warner. [no. 34.] *Ibid.* —130. Mr. Adams on Latinisms. D. H. Chamberlain. 25 Dec. —131. Mr. Adams on private correspondence, 26 Dec. —1885: 132. Undergraduate discussion of the Greek question in the Harvard Union, 10 Jan. —133. Language and manners. D. H. Chamberlain. *Ibid.* —134. Webster's style. H. C. Lodge. 12 Jan. —135. A critic criticised. R. 14 Jan. —136. Latinisms in English speech. D. H. Chamberlain. 19 Jan. —*Boston Globe*, 1883: 137. Greek meets Greek, 1 July. —138. Note. *Ibid.* p. 12. —139. Interview with President Eliot, J. E. Todd, President Robinson; letter from President Bartlett, 8 July. —140. The study of Greek, 9 July. —*Boston Journal*, 1883: 141. Sharp arraignment of college methods, 29 June. —142. The demands of the practical, 6 July. —*Boston Transcript*, 1883: 143. The Phi Beta Kappa attack on Greek, 29 June. —144. College Greek, 3 July. —145. Truck for the mind. H. *Ibid.* —146. Jottings, 5 July. —147. Remarks of B. F. Butler at Williams College. *Ibid.* —148. The study of language, 6 July. —149. Shall the Greek go? H. 9 July. —150. "The study of language." E. R. Humphreys. 12 July. —151. The new education. A. N. Everett. 14 July. —152. "The new education." E. R. Humphreys. 20 July. —153. The education question. Violet. 26 July. —154. The "Quarterly Review" and Mr. Adams, 14 Aug. [The study of English literature. *Quarterly Review*, July, 1883; clvi., 187-215.] —155. A suggestion worth considering. G. A. Scribner. 21 Sept. —156. Lord Coleridge defends the classics, 27 Oct. —157. The study of Greek at Harvard, 7 Dec. —1884: 158. Notice of the 3d ed. of Adams's College fetich, 7 Feb. —159. Discussion in the New York Harvard Club, 23 Feb. —150. Review of Dyer's Greek question and answer. [no. 5.] 19 April. —151. Modernizing the college course, 23 June. —162. Extract from no. 168, 24 June. —163. Mr. Jebb at Harvard, 30 June. —164. Greek at Harvard. E. C. Towne. 2 July. —*Boston Traveller*, 1883: 165. Editorial, 29 June. —166. Comment on quotation from *New York World* [see no. 172]. 6 July. —*New York Evening Post*: 167. Greek and Latin. 3 July, 1883 (semi-weekly). —168. The liberal education of the future, 23 June, 1884. See no. 162. —169. *New York Sun* and *Times* contained articles, but it has been impossible to consult files for the dates. —*New York Tribune* (semi-weekly.) 1883: 170. The old and the new. 3 July. —171. Defending the classics. 17 July. —*New York World*: 172. See no. 166. —*Phila. Evening Bulletin*: 173. See no. 67^a. —*Springfield Republican*, 1883: 174. Article by F. B. Sanborn. See no. 69^a. —175. Address before the Yale alumni association, 15 Oct., G. S. Merriam, 17 Oct. See also nos. 4, 70^a. —176. Greek in the colleges. See no. 45^a.

The Departments.

The new century and the new building of the Harvard Medical School. 1783-1883. Addresses and exercises at the one hundredth anniversary of the foundation of the Medical School of Harvard University, October 17, 1883. Cambridge. 1884. 8°. pp. (2), 55. *Front.* and 3 *plates*.

Containing the address by Dr. O. W. Holmes, and remarks by President Eliot, Dr. Francis Minot, Dr. S. A. Green, Henry Lee, Esq., and Dr. H. W. Williams.

Description of the physiological laboratory, Harvard Medical School. [By Dr. J. W. Warren.] Boston. 1884. 12°. pp. 24. *Wdcts.*

"Reprinted from *Science*, No. 80."

Monographs of American architecture. No. 1. Harvard Law School. H. H. Richardson, architect. Boston. 1885. *Plates* 18. 13 × 16.

Articles in periodicals.—1. The Hemenway Gymnasium. Plans. *American Architect*. 1 Jan., 1881.—2. Harvard Observatory. *New Eng. Hist. and Geneal. Register*, April, 1881; xxxv., 182; *Maga. of Amer. History*, July, 1881; vii., 73. [Correction of an error in the "Harvard book."]—3. The Peabody Museum of Archaeology and Ethnology. C. F. Thwing. *Harper's Maga.*, Oct. 1881; lxiii., 670-677. *Wdcts.*—4. Austin Hall, the new Law School building, was described in Recent architecture in America by Mrs. Schuyler van Rensselaer. *Century*, May, 1884; xxviii., 59. *Wdct.*—5. The Jefferson Physical Laboratory. J. Trowbridge. *Science*, March, 1885; v., 229-231. *Wdcts.*

COLLEGE PAPERS.

The Harvard Advocate. Vol. xxx.-xxxix. Sept. 30, 1880—June 19, 1885. *Fortnightly*.

Founded, 1866.

The Crimson. Vol. xvi.-xxi. Sept. 30, 1880—June 22, 1883. *Fortnightly*, up to June 28, 1882; *weekly*, from Sept. 30, 1882, to June 22, 1883.

Founded, 1873; united with The Harvard daily Herald in the fall of 1883 under the title of The Herald-Crimson, which was afterwards changed to The daily Crimson.

The Harvard Lampoon. Second series. Vol. i.-ix. March 1, 1881—June 26, 1885. *Fortnightly*.

Founded, 1876. First series, 1876-80.

The following was published in 1882: "Sketches from the Harvard Lampoon. Compiled by W. W. Kent and L. E. Sexton. Published by the Lampoon board of 1882." pp. (10), 122.

Harvard daily Echo. Vol. iii.-vi. Sept. 30, 1880—June 23, 1882.

Founded, 1879. No more published.

The Harvard Register. A monthly periodical, devoted to the interests of higher education. Edited and published by Moses King. Vol. i.-iii. Jan. 1880—July, 1881. *Illustr.*

No more published.

Harvard daily Herald. Vol. i.-vol. iv. no. 9. Jan. 3, 1882—Oct. 6, 1883;—The Herald-Crimson. Vol. iv. no. 10—vol. v. no. 69. Oct. 8, 1883—May 7, 1884;—The daily Crimson. Vol. v. no. 70—vol. vii. May 8, 1884—June 19, 1885.

The Harvard Index for 1880-81—1884-85. 5 vol. Boston. 1880-84. 16°.

Contains a directory of officers and students of the University, athletic and boating records and lists of the officers and members of the college societies. 1880-81 was edited by W. R. Taylor; 1881-82—1883-84 by M. H. Cushing; 1884-85 by D. B. Chamberlain.

COLLEGE SOCIETIES.

Catalogue of the Fraternity of Φ B K, Alpha of Massachusetts. Harvard University, Cambridge. With the Constitution. Cambridge. 1885. 8°. pp. 72.

The recognition of the supernatural in letters and in life. An oration [delivered before the Phi Beta Kappa society, July 1, 1880], by Richard S. Storrs. New York. [1881.] 8°. pp. 57.

The republic. [A poem] read before the Phi Beta Kappa society of Harvard College, June, 1880. [By Edgar Fawcett.] In "Song and story. Later Poems." Boston. 1884. 8°. pp. 51-65.

The scholar in a republic. Address at the centennial anniversary of the Phi Beta Kappa of Harvard College, June 30, 1881, by Wendell Phillips. Boston, *etc.* 1881. 8°. pp. 34.

A poem was read by Charles G. Leland, but it has not been ascertained whether or not it was printed.

[Oration delivered before the Harvard chapter of the Fraternity of the Phi Beta Kappa, June 29, 1882] by Carl Schurz.

Printed in the *Boston Daily Advertiser*, June 30, 1882.

A college fetich. An address delivered before the Harvard chapter of the Fraternity of the Phi Beta Kappa, in Sanders Theatre, Cambridge, June 28, 1883. By Charles Francis Adams, Jr. Boston, *etc.* 1883. 8°. pp. 38.

The same. 2d ed. Boston, *etc.* 1883. 8°. pp. 38.

The same. 3d ed., with supplementary matter. Boston, *etc.* 1884. 8°. pp. 71.

An attempt at a bibliography of the discussion caused by this oration will be found on p. 9.

Some ancient organs of public opinion. [An oration delivered before the Harvard chapter of the Fraternity of Phi Beta Kappa, June 26, 1884.] By Richard Claverhouse Jebb.

Printed in the *Boston Daily Advertiser*, June 27, 1884.

Yankee Doodle. A poem delivered before the Phi Beta Kappa society of Harvard University, June 28, 1883, by Robert Grant. Boston. 1883. sq. 16°. pp. 31.

The case of the educated unemployed. An address delivered before the Harvard chapter of the Fraternity of the Phi Beta Kappa society in Sanders Theatre, Cambridge, June 25, 1885. By William Henry Rawle. Philadelphia. 1885. 8°. pp. 31.

The same. Second edition. Boston, *etc.* 8°. pp. 31.

A legend of good poets. A poem by John White Chadwick, delivered June 25, 1885, to the Phi Beta Kappa Fraternity of Harvard University. Boston. 1885. 8°. pp. 20.

Catalogue of the Society of Christian Brethren. Founded, 1802. Cambridge. 1881. 16°. pp. 17.

The St. Paul's Society in Harvard College. Constitution, by-laws, and list of members. Cambridge. 1880. 8°. pp. 24.

Boylston Medical Society of Harvard University. Catalogue. March, 1881. Boston. 1881. 8°. pp. 39.

Catalogue of the officers and members of the Hasty Pudding Club in Harvard College. Cambridge, Mass. 1884. pp. 157.

Catalogue of the officers and members of the O. K. in Harvard College. *To which is prefixed a short history of the society, 1859-1885. Cambridge. 1885. 8°. pp. (4), xii. 9-40.

Constitution and by-laws of the Everett Athenæum of Harvard College. [With a list of members.] Published by the Athenæum of '85. 1883. 16°. pp. 21.

CLASS REPORTS, ETC.

Memorials of the Class of 1833 of Harvard College. Prepared for the fiftieth anniversary of their graduation by the class secretary Waldo Higginson. Cambridge. 1883. 8°. pp. 164.

Memorials of the Class of 1834 of Harvard College. Prepared for the fiftieth anniversary of their graduation, by Thomas Cushing, at the request of his classmates. Boston. 1884. 8°. pp. xiii., 110.

Harvard College. Class of 1843. Memorabilia, 1883. . . . Prepared by William A. Richardson, class secretary. Printed for the use of the class, June 27, 1883. 8°. pp. 37.

Report of the Class of 1857 in Harvard College. Prepared for the twenty-fifth anniversary of its graduation. [By F. H. Brown.] Cambridge. 1882. 8°. pp. 258.

Harvard College. Report of the Class of 1860. 1860-1880. [By F. M. Weld.] Printed for the use of the class. New York. 1880. 8°. pp. 1-171, (26), 191-246, (10), *portr.*

Class of 1860, Harvard College. October 1, 1881. Circular of corrections and changes since March, 1880. 8°. pp. 20.

Pages 1-9 printed on one side only, for insertion in the foregoing report.

The fourth report of the secretary of the Class of 1862 of Harvard College. June, 1880. [By W. T. Brigham.] Printed for the use of the class. Boston. 1880. 8°. pp. 48.

The fifth report of the secretary of the Class of 1862 of Harvard College. December, 1882. [By W. T. Brigham.] Printed for the use of the class. n. p. n. d. 8°. pp. 264, (3), *portr.*

Report of the secretary of the Class of 1863 of Harvard College. June, 1875, to June, 1883. [By A. Lincoln.] With an appendix. Printed for the use of the class. Cambridge. 1883. 8°. pp. 188, *portr.*

Harvard College. Class of 1864. Secretary's report. No. 5. June, 1874—June, 1881. [By W. L. Richardson.] Boston. 1881. 8°. pp. 62, (2).

Sixth report of the secretary of the Class of 1865 of Harvard College. June, 1878, to June, 1885. [By T. F. Brownell.] With an appendix. Printed for the use of the class. New York. 1885. 8°. pp. viii., 188.

The secretary's report of the Class of 1866 of Harvard College. June, 1876—June, 1881. [By C. E. Stratton.] Boston. 1881. 8°. pp. 46.

Harvard College. Class of 1867. Secretary's report. No. 7. 1882. [By F. H. Lincoln.] Boston. 1882. 8°. pp. 46.

Harvard College. Class of 1868. Secretary's report. No. 4. 1880. [By A. D. Chandler.] Boston. 1880. 8°. pp. 45.

The fourth triennial report of the secretary of the Class of 1869 of Harvard College. Fifth report — June, 1881. [By T. P. Beal.] Boston. 1881. 8°. pp. 75.

The fifth triennial report of the secretary of the Class of 1869 of Harvard College. Sixth report — August, 1884. [By T. P. Beal.] Boston. 1884. 8°. pp. 69.

The fourth report of the secretary of the Class of 1870 of Harvard College. [By T. B. Ticknor.] Boston. 1880. 8°. pp. 59.

Fourth report of the secretary of the Class of 1871 of Harvard College. June, 1880. [By A. M. Barnes.] Printed for the use of the class. Boston. 1880. 8°. pp. 52.

Fourth report of the secretary of the Class of 1872 of Harvard College. June, 1878—June, 1881. [By A. L. Lincoln, Jr.] Printed for the use of the class. Boston. 1881. 8°. pp. 32.

Fifth report of the secretary of the Class of 1872 of Harvard College. June, 1881—June, 1885. [By A. L. Lincoln, Jr.] Printed for the use of the class. Brookline. 1885. 8°. pp. 40.

Third report of the secretary of the Class of 1874 of Harvard College. July, 1874—June, 1880. [By G. P. Sanger, Jr.] Printed for the use of the class. Cambridge. 1880. 8°. pp. 67.

Fourth report of the class secretary of the Class of 1874 of Harvard College. June, 1880—June, 1884. [By G. P. Sanger, Jr.] Printed for the use of the class. Boston. 1884. 8°. pp. 72.

Harvard College. Class of 1875. Secretary's report, no. IV. 1884. [By W. A. Reed.] Brockton, Mass. n. d. 8°. pp. 71.

Harvard College. Class of 1876. Triennial report of the secretary. Secretary's report number three, June, 1876—June, 1882. [By W. L. Chase.] Printed for the use of the class. Boston. 1882. 8°. pp. 181, (3), *front*.

Harvard College. Class of 1877. Secretary's report, no. II. 1880. [By W. E. Russell.] Cambridge. 1880. 8°. pp. 77, *front*.

Harvard College. Class of 1877. Secretary's report, no. III. 1885. [W. E. Russell, Sec.] Abington, Mass. 1885. 8°. pp. 107.

Edited by F. W. Rollins.

Harvard College. Class of 1878. Secretary's report. No. II. 1884. [By J. C. Whitney.] Printed for the use of the class. Cambridge. 1885. 8°. pp. 153.

Harvard College. Class of 1879. Secretary's report. No. II. Commencement, 1882. [By Francis Almy.] n. p. n. d. 8°. pp. 154, *front*.

Harvard College. Class of 1879. Secretary's report. No. III. Commencement, 1885. [By Francis Almy.] n. p. n. d. 8°. pp. vii., 113, *front*.

Harvard College. Class of 1880. Secretary's report, no. I. Commencement, 1880. [By Frederic Almy.] n. p. n. d. 8°. pp. 95.

Harvard College. Class of 1880. Secretary's report. No. II. Commencement, 1883. [By Frederic Almy.] n. p. n. d. 8°. pp. 139, (3), *front*.

Harvard College. Class of 1881. Secretary's report. I. 1881. [By C. R. Sanger.] n. p. n. d. 8°. pp. 102.

Second report of the secretary of the Class of 1881 of Harvard College. July, 1881—July, 1884. [By C. R. Sanger.] Printed for the use of the class. Cambridge. 1884. 8°. pp. 112.

Harvard College. Secretary's report. Class of 1882. I. July, 1882. [By A. E. Miles.] n. p. n. d. 8°. pp. 100.

Harvard College. Secretary's report. Class of 1882. II. June, 1885. [By A. E. Miles.] n. p. n. d. 8°. pp. 124.

Harvard College. Class of 1883. Secretary's report. No. I. 1883. [By F. Nichols.] n. p. n. d. 8°. pp. 107.

Harvard College. Class of 1884. Secretary's report. No. I. 1884. [By E. A. Hibbard.] n. p. n. d. 8°. pp. 115.

Class of 1881. Valedictory sermon and hymn, Class-day orations and poem. Cambridge. 1881. 8°. pp. 40.

Sermon: Christo et ecclesiae, by Andrew P. Peabody. — Hymn, by Henry Norman. — Oration, by Curtis Guild. — Poem, by C. T. Dazey. — Ivy oration, by Carleton Sprague. — Ode, by Prescott Evarts. — Song, words by M. S. Wright, music by G. A. Burdett.

Class of 1882. Baccalaureate sermon, Class-day oration, etc. Cambridge. 1882. 8°. pp. 40.

Sermon, by Francis G. Peabody. — Oration, by Sherman Hoar. — Poem, by J. McG. Foster. — Ivy oration, by G. L. Kittredge. — Ode, by F. E. Fuller. — Song, words by Gustavus Tuckerman, music by F. R. Burton.

Class of 1883. Baccalaureate sermon, Class-day oration, etc. Cambridge. 1883. 8°. pp. 47.

Sermon: Hospitality, by Andrew P. Peabody. — Oration, by A. R. Marsh. — Poem, by H. G. Chapman. — Ivy oration, by C. H. Grandgent. — Ode, by A. M. Lord. — Song, words and music by E. P. Warren.

Class of 1884. Baccalaureate sermon, Class-day oration, poem, Ivy oration, ode, class song. Cambridge. 1884. pp. 52.

Sermon: Character, the medium between learning and life, by Phillips Brooks. — Oration, by W. W. Penn. — Poem, by L. E. Gates. — Ivy oration, by J. J. Chapman. — Ode, by W. W. Mumford. — Song, words by C. C. Ziegler, music by C. E. Hamlin.

Class of 1885. Baccalaureate sermon, Class-day oration, poem, Ivy oration, ode, class song. Cambridge. 1885. 8°. pp. 40.

Sermon: Consulting with one's self, by Andrew P. Peabody. — Oration, by E. T. Sandford. — Poem, by G. R. Nutter. — Ivy oration, by E. L. Thayer. — Ode, by J. A. Hill. — Song, words by J. S. Phillips, music by C. W. Ayer.

NOTE. — The following titles should be added to the list of articles on the Greek question: The proposed change in liberal studies. *Andover Review*, July, 1884. — The educating power of the classics. A. W. Gould. *Trans. Mich. State Teachers' Assoc.*, xxxiii. 32.

PUBLICATIONS OF THE OFFICERS.

Ezra Abbot.

Bussey Professor of New Testament Criticism and Interpretation, 1872-1884.

1. The Gospels in the new revision. *Sunday School Times* (Phila.), 28 May, 4 June, 11 June, 1881. The first article was reprinted in Dr. Kennedy's *Ely lectures on the revision*. Appendix ii. London. 1882.
2. Notice of Westcott and Hort's edition of the Greek Testament. *Sunday School Times*, 5 Nov. 1881. Reprinted in large part in the *Ely lectures* (as above), pp. 161-165.
3. Dr. Gregory's Prolegomena to Tischendorf's last critical edition of the Greek Testament. *Harvard Register*, June, 1881; iii. 322.
4. On the construction of Titus ii. 13. *Journal of the Soc. of Biblical Lit. and Exegesis*, June, 1881, pp. 3-19.
5. On the construction of Romans ix. 5. *Ibid.*, Dec. 1881, pp. 87-154. See also, *ibid.*, Dec. 1882, p. 160.
6. Revision and in large part rewriting of the article "Bible text: the New Testament," by Tischendorf and Gebhardt in the Schaff-Herzog *Encyclopaedia of religious knowledge*, vol. i. New York. 1882, pp. 268-279.
7. A new authority on demonology. *Independent*, 1 March, 1883.
8. An exegetical note (on Matt. xxii. 14). *Christian Register*, 22 Feb. 1883.
9. Recent discussions of Romans ix. 5. *Journal of the Soc. of Biblical Lit. and Exegesis*, Dec. 1883, pp. 90-112.
10. Novum Testamentum Graece ad antiquissimos testes denuo recensuit apparatus criticum apposuit Constantinus Tischendorf. Editio octava critica maior. Volumen iii. Prolegomena scripsit Casparus Renatus Gregory additis curis † Ezrae Abbot. Pars prior. Lipsiae. 1884. 8°. — Advance sheets of pp. 167-182 were printed with the following title: De editionibus Novi Testamenti Graece in versuum quos dicunt distinctione inter se discrepantibus. 1882.
11. (Posthumous) Extract from a private letter to Dr. Isaac H. Hall: Gerhard von Mastricht (not van Maestrict) the proper spelling of the name of the Greek Testament editor designated by the letters "G. D. T. M. D." *Unitarian Review*, Aug. 1884; xxii. pp. 169-173.
12. Critical appendix to the Andover Review, vol. iii. Notes on Scrivener's "Plain introduction to the criticism of the New Testament," third edition. Chiefly from memoranda of the late Prof. Ezra Abbot, D.D., LL.D.

With additions from Profs. Harris and Warfield and Dr. C. R. Gregory. Edited by Joseph Henry Thayer, D.D. Boston, etc. 1885. 8°.

Ezra Abbot. Published for the alumni of Harvard Divinity School. Cambridge. 1884. 8°. *Portrait*.

Containing addresses by Prof. C. C. Everett, Rev. Aug. Woodbury, Rev. A. P. Peabody, Prof. J. H. Thayer, Memorial tributes from academical and literary bodies, and from personal sources, and a list of Dr. Abbot's publications.

Brooks Adams.

Lecturer on Constitutional Law, 1882-1883.

1. The embryo of a commonwealth. *Atlantic Monthly*, Nov. 1884; liv. 610.
2. The consolidation of the colonies. *Ibid.*, March, 1885; lv. 302.

Alexander Agassiz.

Curator of the Museum of Comparative Zoölogy, 1875—.

1. Palaeological and embryological development. Address, as Vice-president of section B., at the recent Boston meeting of the American Association for the advancement of Science. *Am. Journ. of Science*, Oct., Nov. 1880; 3d series, xx. 294-302, 375-389. Also *Nature*, 2 Sept. 1880; xxii. 424-431.
2. Report on the Echinoidea dredged by H. M. S. "Challenger" during the years 1873-1876. *Report on the scientific results of the voyage of H. M. S. "Challenger."* . . . Prepared under the superintendence of Sir C. Wyville Thomson. Zoölogy. Vol. III. London. 1881. 4°. pp. 1-321, plates 65.
3. Biographical sketch of Louis François de Pourtales. Cambridge. 1881. 8°. pp. 11. Reprinted from *Proc. Am. Acad.*, xvi. 435. See also *Nature*, 19 Aug. 1880; xxii. 371, and *Am. Journ. of Science*, Sept. 1880; 3d series, xx. 253-255.
4. Review of Dr. C. Chun's "Ctenophorae." *Am. Journ. of Science*, Jan. 1881; 3d series, xxi. 81.
5. List of dredging stations occupied during the year 1880 by the U. S. C. S. Str. "Blake." *Bull. Mus. Comp. Zööl.*, Feb. 1881; viii. 4.
6. Review of Haeckel's "System der Medusen." *Am. Journ. of Science*, July, 1881; 3d series, xxii. 160.
7. Letter no. 5. To C. P. Patterson, Supt. U. S. C. S., on the explorations in the vicinity of the Tortugas, during March and April, 1881. *Bull. Mus. Comp. Zööl.*, July, 1881; ix. 3.

8. *Polyclonia frondosa*. *Nature*, 29 Sept. 1881; xxiv. 509.
9. On the young stages of some osseous fishes. Part iii. *Proc. Am. Acad.*, May, 1882; xvii. 271-303, plates 20.
10. Obituary of Sir Charles Wyville Thomson. *Am. Journ. of Science*, June, 1882; 3d series, xxiii. 496.
11. Exploration of the surface fauna of the Gulf Stream under the auspices of the Coast Survey, III. i. The Porpitidae and Velellidae. *Mem. Mus. Comp. Zool.*, 1883; viii. 2. (Abstr. *Nature*, xxix. 262.)
12. Selections from embryological monographs, 2. Echinodermata. *Ibid.*, 1883; ix. 2.
13. Bibliography to accompany the above. *Bull. Mus. Comp. Zool.*, Aug. 1882; x. 2.
14. The Tortugas and Florida reefs. Cambridge, June, 1883. 4°. Plates 12. Reprinted from *Mem. Am. Acad.*, xi. 107-133.
15. On the development of some pelagic fish eggs. Preliminary notice. With C. O. Whitman. (Contributions from the Newport marine laboratory, xiv.) *Proc. Am. Acad.*, Aug. 1884; xx. 23-75, plate.
16. The development of osseous fishes, i. The pelagic stages of young fishes. With C. O. Whitman. (Studies from the Newport marine laboratory, xvi.) *Mem. Mus. Comp. Zool.*, 1885; xiv. 1, pt. 1.
17. Reports as Curator of the Museum of Comparative Zoölogy at Harvard College, 1880-1884. See Official Publications.
18. Editorship of the Memoirs and the Bulletin of the Museum of Comparative Zoölogy. The volumes issued since 1880 are fully analyzed under Official Publications.
19. Contributions from the zoölogical laboratory of the Museum of Comparative Zoölogy. See E. L. Mark.
20. Editorship of Reports on the results of dredging by the U. S. C. S. Str. "Blake." VIII. i., IX. XVI. XVII. i., XVIII.-XXIII., XXIV. i., XXVI. (see *Bull. and Mem. Mus. Comp. Zool.*). Mr. Agassiz wrote: IX. Preliminary report on the Echini. *Bull.*, Dec. 1880; viii. 2; — XXII. A chapter in the history of the Gulf Stream. *Ibid.*, May, 1883; xi. 2; — XXIV. i. Report on the Echini. *Mem.*, 1883; x. 1.
21. Editorship of Studies from the Newport marine zoölogical laboratory. This general title was first used with no. XIII., and a list of nos. I.-XII. was then given. (*Bull. Mus. Comp. Zool.*, xi. 9, p. 167.) — I.-VII. prior to Sept. 1880. — VIII. *Bull. Mus. Comp. Zool.*, vi. 8. — IX. *Ibid.*, viii. 8. — X. On the development of the pluteus of Arbacia. By J. W. Fewkes. *Mem. Peabody Acad.*, May, 1881; i. 6, pp. 10, pl. 1. — XI. *Bull. Mus. Comp. Zool.*, ix. 8. — XII. no. 9 above. — XIII. *Bull. Mus. Comp. Zool.*, xi. 9. — XIV. no. 15 above. — XV. *Bull. Mus. Comp. Zool.*, xi. 11. — XVI. *Mem. Mus. Comp. Zool.*, xiv. 1, pt. i.

Louis Agassiz.

Director of the Museum of Comparative Zoölogy, 1859-1873.

*** The following posthumous works were published within the period included by this list.

1. Report on the Florida reefs. *Mem. Mus. Comp. Zool.*, 1880; vii. 1.

Louis Agassiz: his life and correspondence. Edited by Elizabeth Cary Agassiz. 2 vols. Boston. 1885. 8°. Plates.

Frederic DeForest Allen.

Professor of Classical Philology, 1880 —.

1. Remnants of early Latin. Boston. 1880. 12°.
2. Etymological and grammatical notes. [τῆ- λουρός, θεωρός, π. i. Féw, δαίφρων, siremps, macte virtute esto, temperare, intrare, penetrare.] *Am. Journ. of Philol.*, May, 1880; i. 127-145.
3. Greek inscription from Gerasa in Syria. *Ibid.*, July, 1882; iii. 206-207.
4. The dialect of Assos. *Ibid.*, Dec. 1882; iii. 463-464.
5. The University of Leyden in its relation to classical studies: address as President of the American Philological Association, 1882. *Proc. of the fourteenth annual session of the Am. Philol. Assoc.*, held at Cambridge, July, 1882.
6. A Greek grammar for schools and colleges. By James Hadley, late professor in Yale College. Revised and in part rewritten by Frederic DeForest Allen, Professor in Harvard College. New York, etc. 1884. 12°.
7. Greek and Latin inscriptions from Palestine. *Am. Journ. of Philol.*, July, 1885; vi. 190-216.

Joel Asaph Allen.

Assistant in Ornithology, 1871-1885.

1. List of mammals collected by Dr. Edward Palmer in north-eastern Mexico, with field notes by the collector. *Bull. Mus. Comp. Zool.*, 1881; viii. 9.
2. Mammals and birds. *Harvard Register*, May, 1881; iii. 286.
3. The migration of birds. *Scribner's Monthly*, 1881; xvii. 932-938.
4. Preliminary list of works and papers relating to the mammalian orders Cete and Sirenia. *Bull. U. S. Geolog. and Geograph. Surv.*, 1882; vi. 399-562.
5. On trinomial nomenclature. *Zoölogist*, 1883; pp. 97-100.
6. On the interbreeding of birds. *Ibis*, 1883; pp. 226-228.
7. Capture of the crested seal on the coast of Massachusetts. *Science*, 15 June, 1883; i. 542.

8. The right whale of the Atlantic. *Ibid.*, 29 June, 1883, i. 598; 3 Aug. 1883, ii. 134; 31 Aug. 1883, ii. 267.
9. Edited the *Bulletin of the Nuttall Ornithological Club* (vi.-viii.; 1881-1883) and its successor, *The Auk*. (i., ii.; 1884, 1885).
- 10-18. In the *Bulletin of the Nuttall Ornithological Club*: 10. Insectivorous birds in their relation to man. 1881, vi. 22-27. — 11. Supplementary list of birds of the island of Santa Lucia, W. I. *Ibid.* 128. — 12. On the occurrence of the red-bellied woodpecker in Massachusetts. *Ibid.* 183. — 13. Capture of *Plectrophanes lapponicus* in Chester, S. C. 1882, vii. 54. — 14. The sharp-tailed finch in Kansas. *Ibid.* 55. — 15. Note on exceptions to the law of increase of size northward among North American birds. 1883, viii. 80-82. — 16. Capture of the great gray owl in Massachusetts. *Ibid.* 123. — 17. The wood ibis in Massachusetts. *Ibid.* 185. — 18. List of birds observed in the vicinity of Colorado Springs, Colorado, during March, April, and May, 1882. With William Brewster. *Ibid.* 151-161, 189-198.
- 19-23. In *The Auk*: 19. Zoölogical nomenclature. 1884, i. 338-353. — 20. Sexual selection and the nesting of birds. 1885, ii. 129-139. — 21. Capture of escaped cage birds. *Ibid.* 314. — 22. A hawk owl at Chatham, Mass. *Ibid.* 383. — 23. A crested auk on the Massachusetts coast. *Ibid.* 388.
12. The Mexican boundary. (J. Q. Adams.) *Ibid.*, June, 1883.
13. Port Royal. *Atlantic Monthly*, March, 1883; ii. 387.
14. Did Caesar fortify the Rhône? *Journ. of Education*, July 12, 1883; xviii. 51.
15. International copyright. *American*, 15 March, 1884.
- 16-29. In the *Christian Register*: 16. Agnosticism — what is it? 22 Jan. 1881. — 17. Is it agnosticism? 5 Feb. 1881. — 18. The Greek play at Harvard. 19 Feb. 1881. — 19. Carlyle's Gospel. 26 May, 1881. — 20. Transylvania. (Four letters.) 27 Oct., 3, 10, 17 Nov. 1881. — 21. Review of "Natural religion." 31 Aug. 1882. — 22. Review of "Opinions and character of Jesus." 31 May, 1883. — 23. Review of Rev. A. P. Peabody's translation of Cicero's "De officiis." 4 Oct. 1883. — 24. Review of "Christianity in its cradle." — 25. Agnostic and positivist. 24 April, 1884. — 26. The optimism of science. 15 May, 1884. — 27. Spencer and Harrison again. 21 Aug. 1884. — 28. The worship of humanity. 4 Sept. 1884. — 29. Letters from California (13). 25 Dec. 1884-30 July, 1885.
- 30-36. In *The Index*: 30. Henry George's theories. 19 April, 17 May, 1883. — 31. Mr. George's land scheme. 24 May, 1883. — 32. Gibbon, and postscript, 31 May, 14 June, 1883. — 33. Was Christianity, then, all a calamity and a blunder? (Review of Oswald's "Secret of the east.") 6 Sept. 1883. — 34. Mr. Fiske's moral theories. 27 Dec. 1883. — 35. Cornell and Professor Adler. 17 Jan. 1884. — 36. "Reply," etc. (On philosophical necessity.) 14 Feb. 1884.
- 37-41. In the *Unitarian Review*: 37. Mr. Savage on the life of Jesus. Feb. 1881, p. 151. — 38. The oldest unitarian community. Jan. 1882, p. 38. — 39. Christ in the east and west. (Review of Mozoomdar's "The oriental Christ.") May, 1884, p. 409. — 40. Relation of the church of to-day to education. (Address at the Western conference.) July, 1884, p. 63. — 41. What New England congregationalism really meant. (National conference at Saratoga.) Nov. 1884, p. 392. — See also the note to no. 4.

Joseph Henry Allen.

Lecturer on Ecclesiastical History, 1878-1882.

1. Fragments of Christian history. Boston. 1880. 16°.
2. Three phases of modern theology. Boston. 1880. 8°.
3. Our liberal movement in theology, chiefly as shown in recollections of the history of Unitarianism in New England; being a closing course of lectures in the Harvard Divinity School. Boston. 1882. 16°.
4. Christian history in its three great periods. i. Early Christianity (including "Fragments"). — ii. The middle age. — iii. Modern phases. Boston. 1883. 16°.

A portion of this work appeared in the *Unitarian Review* under the following titles: Scholastic theology. July and Aug. 1882, p. 1, 130. Passage from dogma to philosophy. Oct. 1882, p. 330. Speculative theology. July, 1883, p. 19. Milton and the commonwealth. Sept. 1883, p. 242.

5. Outline of Christian history. A.D. 50-1880. Boston. 1884. 16°.
6. Caesar's Gallic war, 2d ed. revised and extended. ("Allen and Greenough" Classical series.) Boston. 1885. 16°.
7. Mathematics as a college study. *Harvard Register*, Feb. 1881; iii. 87.
8. Mount Auburn Cemetery. *Ibid.*, July, 1881; iii. 369.
9. Some early heretics. *Modern Review*, Oct. 1881.
10. A word on Hungary. *International Review*, Feb. 1882; xii. 139.
11. An American in Hungary. *Nation*, 22 Sept. 1881; xxxiii. 230.

Clement Walker Andrews.

Assistant in Organic Chemistry, 1880-1881.

1. Ueber dibromacrylsäure. With H. B. Hill. *Ber. d. deutschen chemischen Gesellschaft*, 1881; xiv. 1677.
2. On the relation between dibromacrylic acid and tribromopropionic acids. With H. B. Hill. *Proc. Am. Acad.*, 1881-1882; xvii. 133.

These papers belong to the series: *Contributions from the chemical laboratory of Harvard College.*

William Henry Baker.

Instructor in Gynaecology, 1875-1882; Assistant Professor of Gynaecology, 1882—.

1. Drainage in the removal of sub-mucous fibroids. *Arch. of Medicine*, Feb. 1882.

2. Vaginal ovariectomy. *N. Y. Med. Journ. and Obstetr. Rev.*, March, 1882, p. 250.
3. The treatment of cancer of the uterus. *Am. Journ. of Obstetr.*, April, 1882; xv. no. 2.
4. Hyperaemia of the vesico-urethral membrane. *Trans. Am. Gynecol. Soc.*, vii.
5. The use and abuse of Battey's and Tait's operations. *Boston Med. and Surg. Journ.*, 12 Feb. 1885.
6. Unusual cases of vesico-vaginal and vesico-uterine fistula. *Boston Med. and Surg. Journ.*, 26 Feb. 1885.

Charles Maynard Barnes.

Instructor in Sales, 1882-1883.

1. Edited Kent's Commentaries on American law. 13th ed. Boston. 1884.

Henry Jacob Bigelow.

Professor of Surgery, 1849-1882; *Emeritus*, 1882—.

1. Remarks on modern lithotripsy. *Lancet*, 1881; ii. 533, 577. Also: *Trans. Internat. Med. Congr.*, 7th sess. London, 1881; ii. 292-306. Remarques sur la lithotritie moderne. *Rev. de Chirurg.*, 1882; ii. 301-318. Die moderne Lithotritie. *Arch. f. klin. Chirurg.*, xxvii. 673-696.
2. Radical cure, without operation, of a large and inflamed umbilical hernia, of seven years duration, and irreducible for two months before admission to the hospital; the hernia was slowly reduced by compression with adhesive straps, and the cavity of the inverted integuments obliterated by blistering during a period of six months. *Boston Med. and Surg. Journ.*, 1882; cvi. 10.
3. A case of disease of the liver terminating fatally in a month. *Ibid.*, 1882; cvi. 171.
4. Lithotripsy with evacuation. *Ibid.*, 1882; cvi. 493-496.
5. A simplified evacuator for litholapaxy. *Boston Med. and Surg. Journ.*, 1883; cviii. 25-28. Also: *N. Y. Med. Journ.*, 1883; xxxvii. 38-41. Also: *Lancet*, 1883, i. 6, 52. Also: *Western Lancet* (San Francisco), 1883; xii. 42-59. Évacuateur simplifié pour la lithotritie rapide (litholapaxie). *Rev. de Chirurg.* Paris, 1883; iii. 453-462.

William Sturgis Bigelow.

Assistant in Surgery, 1880-1883.

1. The study of bacteria and their relations to disease. *Boston Med. and Surg. Journ.*, 1882; cvi. 248-250.

Clarence John Blake.

Clinical Instructor in Otolaryngology, 1870—.

1. Selection of test-words according to their logographic value. *Trans. Am. Otological Soc.*, 1881.

2. Aural symptoms occurring in hysteria and the hysterical element in aural disease. (In conjunction with Dr. G. L. Walton.) *Annales des Maladies de l'Oreille et du Larynx*, 1884; x.
3. Aural symptoms occurring in secondary syphilis (with Dr. G. L. Walton). *Ibid.*, 1885.
4. Reviews as associate editor of *Annales des Maladies de l'Oreille et du Larynx*, 1884.
- 5-11. In the *American Journal of Otolaryngology*: 5. On the occurrence of exostoses within the external auditory canal in prehistoric man. (Second paper.) 1880; ii. — 6. Treatment of otoscleroma by means of pressure and massage. 1881; iii. — 7. Acute congestion of the upper portion of the tympanic cavity and membrana tympani. *Ibid.* — 8. Aural polypus snare. *Ibid.* — 9. The glossograph of Amadeo Gentilli. *Ibid.* — 10. The progressive growth of the dermoid coat of the membrana tympani. *Ibid.* — 11. Editorials and reviews as editor, 1881-82.

William Palmer Bolles.

Instructor in Materia Medica, 1880-1884.

1. New surgical apparatus. *Boston City Hospital Medical Reports*, 3d ser., 1882.
2. The articles upon Materia medica in *Wood's Reference Handbook of the Medical Sciences*. Vol. i. New York. 1885.

Henry Pickering Bowditch.

Professor of Physiology, 1876—. *Dean of the Medical Faculty*, 1883—.

1. The relation between growth and disease. Reprinted. Philadelphia. 1881. 8°. *Trans. Am. Med. Association*, 1881; xxxii. 371-377.
2. A comparison of sight and touch (with Dr. Southard). *Journ. of Physiology*, 1881-1882; iii. 232-245, plate 1.
3. Optical illusions of motion (with Dr. G. Stanley Hall). *Ibid.*, 1881-1882; iii. 297-307, plate 1.
4. On the collection of data at autopsies. *Boston Med. and Surg. Journ.*, 19 Oct. 1882; cvii. 365.
5. Plethysmographische Untersuchungen über die Gefässnerven der Extremitäten (with Dr. J. W. Warren). *Centralblatt für die medizinischen Wissenschaften*, 1883; xxi. 513.
6. Force production; a lecture. *Boston Med. and Surg. Journ.*, 1883; cviii. 385.
7. Note on the nature of nerve-force. *Journ. of Physiology*, May, 1885; vi. 133.
8. Reports as Dean of the Medical faculty. *Annual reports of the President*, 1882-1883—1884-1885.

The following articles represent work done in the physiological laboratory of the Harvard Medical School.

Note on the production of the second heart sound. By C. E. Webster. *Journ. of Physiol.*, Jan. 1882; iii. 294.

Reaction-time and attention in the hypnotic state. By G. Stanley Hall. *Mind*, April, 1883; viii. 170-182.

Experimental researches on the tension of the vocal bands. By Dr. F. H. Hooper. *Arch. of Laryngol.*, July, 1883.

Beiträge zur Theorie der Wärmeempfindung. By Dr. W. P. Lombard and Dr. G. L. Walton. *Centralblatt für die medicinischen Wissenschaften*, 1883, p. 577.

Description of the physiological laboratory of the Harvard Medical School. By Dr. J. W. Warren. *Science*, 15 Aug. 1884; iv. 128-135, *illustr.*

The respiratory function of the human larynx. By Dr. F. H. Hooper. *N. Y. Med. Journ.*, 4 July, 1885.

Plethysmographic and vaso-motor experiments with frogs. By Dr. F. W. Ellis. *Journ. of Physiol.*, Nov. 1885; vi. 435-463, *plates* 2,

Francis Bowen.

Alford Professor of Natural Religion, Moral Philosophy, and Civil Polity, 1853—.

1. Review of Hall's Aspects of German culture. *Harvard Register*, March, 1881; iii. 160.
2. Christian metempsychosis. *Princeton Review*, May, 1881, pp. 315-342.
3. An early American version of the Scriptures. *Ibid.*, Jan. 1883, pp. 19-46.
4. A layman's study of the English Bible considered in its literary and secular aspect. New York. 1885. 16°. pp. 145.

Charles Albert Brackett.

Assistant Professor of Dental Therapeutics, 1880-1883; *Professor of Dental Pathology and Therapeutics*, 1883—.

1. Certain therapeutic agents: a supplementary report as a member of section VI. of the American Dental Association. Read at the annual meeting in Boston, Aug. 1880. *Trans. of the Am. Dental Assoc. at the 20th ann. sess.*, 1881, p. 32.
2. One thing needful for the durability of fillings. A paper read before the American Academy of Dental Science at the annual meeting in Boston, Oct. 27, 1880. *Dental Cosmos*, May, 1881; xxiii. 235.
3. Newport as a health resort. *Daily News* (Newport, R. I.), 30 April, 1883; xxxviii. no. 75. Also in the *Newport Journal*, 4 May, 1883.
4. Some of the opportunities, responsibilities and encouragements of life. An address delivered before the Massachusetts Dental Society at its eighteenth annual meeting, in Boston, Dec. 14, 1882. Published by the Society. Boston. 1883. 8°. pp. 19.
5. Mistakes and failures. Reprinted from Transactions of the New York Odontological Society. 1883. Philadelphia. 1884. 8°. pp. 9.

A paper read before the Society, 20 Nov. 1883. It appeared also in *Dental Cosmos*, July, 1884; xxvi. 103.

Edward Hickling Bradford.

Clinical Instructor in Orthopedic Surgery, 1881-1882; *Assistant in Clinical Surgery*, 1882—.

1. Anchylosis of the spine. *Ann. Anat. and Surg.*, 1883.
- 2, 3. In *N. Y. Medical Journal*: 2. Two cases of knock knee, Jan. 1881.—3. Three cases of painful affection of the wrist. July, 1882.
- 4-7. In *Boston Medical and Surgical Journal*: 4. Resection of tarsus in club foot. 5 Sept. 1881.—5. Cases of wry neck. 1 June, 1882.—6. Paralytic dislocation at the hip-joint. Jan. 1883.—7. Use of force in club foot. 20 March, 1884.

Edward Cornelius Briggs.

Instructor in Operative Dentistry, 1880-1883; *Instructor in Materia Medica*, 1883-1884; *Instructor in Dental Materia Medica*, 1884—.

1. Sponge-grafting. Read before the American Medical Association and published in the *Journal of the Assoc.*, 1 Sept. 1883.

William Elwood Byerly.

Assistant Professor of Mathematics, 1876-1881; *Professor of Mathematics*, 1881—.

1. Elements of integral calculus, with a key to the solution of differential equations. Boston. 1881. 8°.
2. Syllabus of a course in plane trigonometry. Boston. 8°.
3. Syllabus of a course in plane analytical geometry. Boston. 8°.
4. Syllabus of a course in plane analytic geometry (advanced courses). Boston. 8°.
5. Syllabus of a course in analytical geometry of three dimensions. Boston. 8°.
6. Syllabus of a course on modern methods in analytic geometry. Boston. 8°.
7. Syllabus of a course in the theory of equations. Boston. 8°.

Lucien Carr.

Assistant Curator of the Peabody Museum of American Archaeology and Ethnology, 1877—.

1. Notes on the crania of New England Indians. *Anniversary memoirs of Boston Soc. Nat. Hist.* Boston. 1880. 4°.
2. The mounds of the Mississippi valley historically considered. 1883. 4°. From *Memoirs of the Kentucky Geological Survey*, ii.
3. On the social and political position of woman among the Huron-Iroquois tribes. *Report of the Peabody Mus.*, 1884. Papers 16, 17.

James Read Chadwick.

Clinical Instructor in Gynaecology, 1880—.

* * By request the titles of Dr. Chadwick's publications between his resignation in 1876 and his re-appointment in 1880 are entered here.

1. Functions of the anal sphincters, so-called. *Trans. Am. Gynecolog. Soc.*, 1878; ii.

2. The study and practice of medicine by women. *Internat. Review*, Oct. 1879.
3. Cases of sporadic septicaemia in gynaecological practice. *Trans. Am. Gynecolog. Soc.*, 1880; iv.
4. The hot rectal douche. *Ibid.*, 1881; v.
5. Obstetric and gynaecological literature, 1876-1880. *Trans. Am. Med. Assoc.*, 1882; xxxii.
6. Admission of women to the Mass. Medical Society. *Boston Med. and Surg. Journ.*, June, 1882.
7. The health of American women. *North Am. Review*, Dec. 1882.
8. Extirpation of a retro-renal sarcoma by abdominal section. *Boston Med. and Surg. Journ.*, 30 Oct. 1884.
9. Gradual reposition of an inverted uterus by a new contrivance. *Ibid.*, 26 March, 1885.
10. Rupture of vagina during coitus. *Ibid.*, 30 April, 1885.
11. Cases of pregnancy and labor complicated with fibroids. *Comm. Mass. Med. Soc.*, 1885; xiii.
12. Librarian's sixth report to the Boston Medical Library Association. 1881. sm. 4°. pp. 13.
13. Librarian's seventh, eighth, and ninth (conjoint) reports. 1884. sm. 4°. pp. 12.
14. Yearly indexes of the gynecological and obstetric literature of all countries for the years 1876 to 1880 inclusive. *Trans. Am. Gynecolog. Soc.*, 1878-1882; ii.-vi. (about pp. 75 each).
15. Editorship, as Secretary, of the *Transactions of the American Gynecological Society*. Boston. 1878-1882; ii.-vi. 8°.

Seth Carlo Chandler.

Astronomical Observatory.

1. Letter to the Astronomische Gesellschaft on the Science Observer code. *Vierteljahrsschrift d. Astron. Gesellschaft*, 1881; xvi. 344.
2. On the telegraphic transmission of astronomical data. *Science Observer*, Aug. 1881; iii. 65.
3. Elliptic elements of comet (*f*) 1881—Denning. *Ibid.*, Dec. 1881; iii. 91.
4. On a new variable star in the constellation Cetus. *Ibid.*, March, 1882; iii. 105.
5. On Sawyer's variable, DM. +1° 3408. *Ibid.*, July, 1882; iv. 11.
6. Results of tests with the almucantar in time and latitude. *Proc. Am. Assoc. for the advancement of Science*, 1883. Also *Sidereal Messenger*, ii. 269.
7. On some suspected variable stars. *Science Observer*, iv. 60.
8. Elements and ephemeris of comet 1884 II. (Barnard). *Ibid.*, iv. 80.
9. On a hitherto unexplained observation by Capt. Gilliss. *Sidereal Messenger*, iii. 315.
- 10-29. In *Astronomische Nachrichten*: 10. Elements of comet *b* 1881; c. 121.—11. Elements and ephemeris of comet *e* 1881; c. 319.—12. Observations and elements of Barnard's comet, 1881 VI; ci. 57.—13. On the pe-

riodicity of comet (Denning) 1881 V.; ci. 93.—14. On the variability of DM. +23° 1599; cii. 139.—15. On Sawyer's variable, DM. +1° 3408; cii. 371.—16. On the period of R Hydrae; ciii. 225.—17. On the orbit of the great comet; ciii. 347, 381.—18. Elements and observations of the comet 1883, Brooks-Swift; cv. 127.—19. On the variability of 36 (Uran. Argentina) Ceti; cv. 333.—20. Observations of comet 1883, I. (Brooks-Swift) at Harvard College Observatory; cvi. 9.—21. On the outburst in the light of the comet Pons-Brooks, Sept. 21-23; cvii. 131.—22. On the possible connection of the comet Pons-Brooks with a meteor-stream; cvii. 275.—23. Observations and ephemeris of U Ophiuchi; cviii. 55.—24. Elements and ephemeris of comet 1884 II.; cix. 223.—25. On a convenient formula for differential refraction in ring-micrometer observations; cx. 177.—26. Elements of comet 1884 (Wolf); cx. 143.—27. Dr. Gould's star in Sculptor; cx. 333.—28. On the latitude of Harvard College Observatory; cxii. 113.—29. On the right ascensions of certain fundamental stars; cxii. 381, cxiii. 17.

Edward Channing.

Instructor in History, 1883—.

1. Town and county government in the English colonies. *Johns Hopkins Univ. Studies in Hist. and Polit. Science*, vol. ii. 432-489.

Clarence Alonzo Cheever.

Demonstrator of Anatomy at the Bussey Institution, 1883-1884.

1. Thoughts on feeding for beef. *New Eng. Farmer*, 30 May, 6 June, 1885.

David Williams Cheever.

Professor of Clinical Surgery, 1875-1882; *Professor of Surgery*, 1882—.

1. Some of the dangers and disadvantages of anaesthesia. A monograph. Boston. 1884. Reprinted from the *Boston Med. and Surg. Journ.*
- 2-7. In the *Boston Medical and Surgical Journal*: 2. Foreign body in œsophagus; œsophagotomy; death in sixty hours after operation. 23 March, 1882; cvi. 265.—3. Two cases of successful litholapaxy. *Ibid.*, 273.—4. Clinical lectures reported for the *Journal*, 21 Dec. 1882; cvii. 577-579; 11 Jan. 1883; cviii. 49-51.—5. Deep abscess of the thigh, 12 April, 1883; cviii. 343.—6. See no. 1.—7. Obituary. William H. Thorndike, M.D., 15 Jan. 1885; cxii. 69.
8. Medical and surgical reports of the Boston City Hospital. 3d series. Edited by Dr. D. W. Cheever, Dr. O. F. Wadsworth, and Dr. A. L. Mason. Boston. 1882. 8°.
- 9-17. Dr. Cheever wrote the following: 9. Excision of goitre, 130-133.—10. Aneurism, 134-139.—11. Cancer of the tonsil; removal of the tumor by external excision, 140-148, plates 2.—12. Neuroma in the formative

trunks of the brachial plexus, 148-151. — 13. Naso-pharyngeal polypus; removed by sawing down and depressing the nose, 151. — 14. Laryngo-tracheotomy for foreign bodies and for tumors, 154-156. — 15. Spina bifida, treated by tapping and injection; fatal result, 156-158. — 16. Excision of the lower end of the rectum, 158. — 17. Ventral rupture through a sinus, 159.

Francis James Child.

Professor of English, 1876—.

1. The English and Scottish popular ballads. Parts i.—iii. Boston, 1884, 1885. 4.

John Thomas Codman.

Instructor in Operative Dentistry, 1879-1881.

1. Inflamed and sensitive teeth. Read before the New York Odontological Society, 21 Oct. 1884. *Dental Cosmos*, Jan. 1885, p. 16. Reprinted for distribution.

William Cook.

Assistant Professor of German, 1879-1884.

1. German conversation grammar, being a new and practical method of learning the German language, by Dr. Emil Otto. New edition, revised and in part rewritten by William Cook. New York, etc. [1881.] 12.

Josiah Parsons Cooke.

Erving Professor of Chemistry and Mineralogy, 1850—. Director of the Chemical Laboratory.

1. Scientific culture and other essays. New York. 1881. sq. 16.
2. *The same.* Second edition; with additions. New York. 1885. sq. 16.
3. Principles of chemical philosophy. Revised edition. [Rewritten.] Boston. 1882. 8.
4. The Greek question. Remarks made at the dinner of the Harvard Club of Rhode Island, Newport, R. I. Aug. 25, 1883. *Popular Science Monthly*, Nov. 1883; xxiv. 1-6. Also separately "from advance sheets."
5. Further remarks on the Greek question. *Ibid.*, Oct. 1884.
6. The new chemistry. Revised edition. New York. 1884. 12.
- 7-18. In the *Proceedings of the American Academy of Arts and Sciences*, which Mr. Cooke edited 1880-1885: 7. William Hallowes Miller. 1881; xvi. 461. — 8. The oxidation of hydrochloric acid solutions of antimony in the atmosphere. 1882; xvii. 1. — 9. On argento-antimonious tartrate (silver emetic). *Ibid.*, 5. — 10. On the solubility of argentic chloride in water. *Ibid.*, 7. — 11. Additional experiments on the atomic weight of antimony. *Ibid.*, 13. — 12. The boiling point of iodide of antimony and a new form of air

thermometer. *Ibid.*, 22. — 13. A simple method of correcting the weight of a body for the buoyancy of the atmosphere when the volume is unknown. 1883; xvii. 55. — 14. John Bacon. *Ibid.*, 419. — 15. William Barton Rogers. *Ibid.*, 428. (Also separately: Cambridge. 1883. 8.) — 16. J. B. A. Dumas. 1884; xix. 545. — 17. C. A. Wurtz. *Ibid.*, 568. — 18. Benjamin Silliman. 1885; xx. 523.

- 19-21. In the *American Journal of Science*, of which Mr. Cooke was assistant editor, 1880-1885: 19. Notice of Julius Thomsen's Thermo-chemical investigation of the molecular structure of hydrocarbon compounds. Feb. 1881; 3d series, xxi. 88. — 20. Notice of the investigation of Dr. J. W. Brühl on the relations between the molecular structure of organic compounds and their respective power. *Ibid.*, 70. — 21. Possible variability of the law of definite proportions. Oct. 1883; 3d series, xxvi. 310.

22. As Director, Mr. Cooke has prepared the reports on the Chemical Laboratory which have appeared in the annual reports of the President, and has contributed several (see nos. 8-13 above) of the papers which have been published under the general title: *Contributions from the chemical laboratory of Harvard College*. The rest of these papers will be found among the publications of the following gentlemen: C. W. Andrews, H. B. Hill, C. L. Jackson, O. W. Huntington, L. P. Kinnicutt, C. F. Mabery, W. H. Mellville, C. P. Worcester, A. V. E. Young.

Elbridge Gerry Cutler.

Assistant in Pathological Anatomy, 1878-1882; Clinical Instructor in Auscultation, 1884—.

1. Articles on diseases of the stomach, the intestines, and the spleen. In the *Supplement to Ziemssen's Cyclopaedia of the Practice of Medicine*. New York. 1881. 8.
2. Percussion outlines. With Dr. G. M. Garland. Boston. 1882. 8. pp. 65, plates.
3. Articles on diseases of the coronary artery, pulmonary, superior mesenteric, inferior mesenteric, and hepatic arteries and of the coeliac axis. In Pepper's *System of Medicine*. Philadelphia. 1885. 8.
- 4-11. In the *Boston Medical and Surgical Journal*: 4. Case of fibrous bronchitis. 12 May, 1881. — 5. Measles followed by pleurisy. 27 Oct. 1881. — 6. Oxaluria and the microscopic examination of urinary sediments. 27 April, 1882. — 7. Case of croupous pneumonia occurring in a child with mitral disease. 26 July, 1883; cix. 79. — 8. Protracted lethargy after use of sodium bromide in opium habit. 13 March, 1884; cx. 248. — 9. Double pneumonia in a man with cardiac disease; recovery; pneumonia complicating chronic endocarditis, etc. 13 Nov. 1884; cxi. 469. — 10. Recent progress in pathology and pathological anatomy. 1880-1882. — 11. Occasional reports on special cases illustrative of some point of clinical interest in medicine.

Francis Henry Davenport.*Assistant in Gynecology, 1881—.*

1. Some statistics and observations concerning laceration of the cervix uteri and its treatment. *Boston Med. and Surg. Journ.*, 23 Nov. 1882; cvii. 487.
2. Some observations on Southern California and Colorado. *Ibid.*, 12 June, 1884; ex. 554.
3. Some forms of dysmenorrhoea and their treatment. *Ibid.*, 10 Sept. 1885; cxiii. 249.
4. Semi-annual reports on the progress in gynecology. *Ibid.*, 1882-1885.

William Morris Davis.*Instructor in Geology, 1878-1885; Assistant Professor of Physical Geography, 1885—.*

1. The little mountains east of the Catskills. *Appalachia*, 1882; iii. 20-33.
2. Classification of lake basins. *Proc. Boston Soc. Nat. Hist.*, 1882; xxi. 315-381.
3. Glacial erosion. *Ibid.*, 1882; xxii. 19-58.
4. Illustrations of the earth's surface. I. Glaciers. With N. S. Shaler. Boston. 1881. 4^o. *Plates*.
5. Brief notice of observations on the triassic trap rocks of Massachusetts, Connecticut, and New Jersey. *Am. Journ. of Science*, 1882; xxiv. 345-349.
6. The structural value of the trap ridges of the Connecticut valley. *Proc. Boston Soc. Nat. Hist.*, 1882; xxii. 116-124.
7. On the relations of the triassic traps and sandstones of the eastern United States. *Bull. Mus. Comp. Zool.*, Jan. 1883; vii. 9 (pp. 249-309, plates 3).
8. The folded Helderberg limestones east of the Catskills. *Ibid.*, Jan. 1883; viii. 10 (pp. 311-329, plates 2).
9. The deflective effect of the earth's rotation. *Van Nostrand's Engineering Mag.*, 1883; xxviii. 297.
10. An early statement of the deflective effect of the earth's rotation. *Science*, 1883; i. 98.
11. The origin of cross valleys. *Ibid.*, i. 325.
12. Becraft's Mountain and the non-conformity at Rondout, N. Y. *Am. Journ. of Science*, 1883; xxvi. 381-395.
13. Whirlwinds, cyclones, and tornadoes. Boston, etc. 1884. 16^o. Reprinted from *Science*, ii. iii.; originally delivered as lectures at the Lowell Institute.
14. Meteorological charts of the North Atlantic. *Science*, 1884; iii. 593-597, 654-657.
15. The winds and currents of the equatorial Atlantic. *Am. Meteorol. Journ.*, June, 1884; i. 48-56.
16. The relation of tornadoes to cyclones. *Ibid.*, Aug. 1884; i. 121-127.
17. Gorges and waterfalls. *Am. Journ. of Science*, 1884; xxviii. 123-132.
18. Geographic classification, illustrated by a study of plains, plateaus, and their derivatives. *Proc. Am. Assoc. for the advancement of Science*, 1884; xxxiii.

19. Drumlins. *Science*, 1884; iv. 418-420.

20. On the origin of drumlins. *Am. Journ. of Science*, 1884; xxviii. 407-416.
21. The cold island in Michigan. *Am. Meteorol. Journ.*, May, 1885; ii. 14-18.
22. Temperature diagrams. *Ibid.*, Aug. 1885; ii. 169-175.
23. The deflective effect of the earth's rotation. *Ibid.*, April, 1885; i. 516-524.
24. Irrigation in India and in the United States. *American*, 20 June, 1885.
25. Tornadoes and tornado action. *Ibid.*, 5 Sept. 1885.

Francis Winthrop Dean.*Tutor in Surveying and Drawing, 1875-1881; Tutor in Engineering, 1881-1882.*

1. Locomotive of the future. *The Engineer*, 14 Jan. 1881; li.
2. English locomotives. *Railroad Gazette*. 10 June, 1881; xiii., *illustr.*
3. Improvements in locomotives with reference to efficiency and style of finish. Paper read before the American Railway Master Mechanics' Association at the Chicago meeting, 19-21 June, 1883, and given in their *Report of Proceedings*. Cincinnati. 1883, *illustr.*
4. The theory of the stresses in locomotive driving wheel coupling rods. Paper read before the American Railway Master Mechanics' Association at the Long Branch meeting, 17-19 June, 1884, and given in their *Report of Proceedings*. Cincinnati. 1884.

Frank Winthrop Draper.*Lecturer on Forensic Medicine, 1875-1884; Assistant Professor of Legal Medicine, 1884—.*

1. On medical expert testimony. *Boston Med. and Surg. Journ.*, 4 Nov. 1880; cxiii. 442. [Reprinted in pamphlet form.]
2. A synopsis of fifty medico-legal autopsies. *Medical and Surgical Reports of the City Hospital of Boston*, 3d ser., 1882, p. 81.
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5. Cases of rupture of the liver. *Ibid.*, 10 April, 1884; cx. 339.
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7. On ventilation and warming: A lecture delivered 14 Feb. 1885, before the teachers of Boston public schools, under the auspices of the Mass. Emergency and Hygiene Association. (Published in *Six Lectures upon School Hygiene*, etc. Boston. Ginn & Co. 1885. p. 33.)

Charles Franklin Dunbar.

Professor of Political Economy, 1871—. *Dean of the College Faculty, 1876–1882.*

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3. Reports as Dean of the College faculty. *Annual reports of the President, 1876–1882.*

Thomas Dwight.

Instructor in Histology, 1874–1883; Instructor in Topographical Anatomy, 1880–1883; Parkman Professor of Anatomy, 1883—.

1. Frozen sections of a child. New York. 1881. sm. 8°. pp. 66, plates.
2. The disappearance of tumors. Read before the Boston Society for Medical Observation, 1 Nov. 1880. *Boston Med. and Surg. Journ.*, 9 Dec. 1880.
3. Frozen sections of heads. Unwritten communication before the Boston Society for Medical Improvement, 9 May, 1881. *Ibid.*, 19 May, 1881.
4. The sternum as an index of age and sex. *Journ. of Anat. and Physiol.*, 1881; xv.
5. Frozen sections through a thorax with pleuritic effusion. Suffolk District Medical Society, 21 Jan. 1882. *Boston Med. and Surg. Journ.*, 23 Feb. 1882.
6. A new demonstration of the cavities of the mouth, nose, and pharynx. Read before the Suffolk District Medical Society, 16 May, 1883. *Ibid.*, 13 Sept. 1883.
7. A new demonstration of the axilla: A lecture in the course of topographical anatomy delivered at the Harvard Medical School, 27 March, 1884. *Ibid.*, 29 May, 1884.
8. The movements of the ulna in rotation of the forearm. *Journ. of Anat. and Physiol.*, Jan. 1885.
9. Some points in the physiology and pathology of the neck and chest, shown by frozen sections. Unwritten communication before the Boston Society for Medical Improvement, 11 May, 1885. *Boston Med. and Surg. Journ.*, 28 May, 1885.
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11. Rotation and circumduction. *Journ. of Anat. and Physiol.*, July, 1885.
12. Anatomy at the Harvard Medical School. (A letter in reply to an article by Dr. Monks.) *Boston Med. and Surg. Journ.*, 6 Aug. 1885.
13. The question of a vital principle. (A reply to criticisms by Dr. Morton Prince.) *Ibid.*, 24 Sept. 1885.
14. Modern methods in anatomy. An address before the Massachusetts Medical Society at the annual meeting, 10 June, 1885. Short report in *Boston Med. and Surg. Journ.*, 19 June, 1885.

15. Semi-annual reports on recent progress in anatomy, which have appeared regularly in *Boston Med. and Surg. Journ.*
16. Reviews of anatomical works in the same journal.

Louis Dyer.

Tutor in Greek, 1878–1881; Assistant Professor of Greek and Latin, 1881—.

1. Notice of the Harvard Greek play. *Harper's Weekly*, 28 May, 1881. *Illustr.*
2. Conspectus of the Nichomachean ethics of Aristotle. Privately printed. [1882–1883.]
3. The Greek question and answer. A paper read before the Harvard Club of Rhode Island in Providence, 25 Feb. 1884. Boston, J. R. Osgood & Co. 1884. 4°.
4. Plato's Apology and Crito with introduction and notes. An edition based upon that of Crou. Boston. 1885. sq. 16° (College series of Greek authors. Edited by Professors J. W. White and T. D. Seymour.)

Robert Thaxter Edes.

Professor of Materia Medica, 1875–1884; Jackson Professor of Clinical Medicine, 1884—.

1. Therapeutic handbook of the United States pharmacopœia. New York. 1883.
2. Symptoms of Bright's disease. *Boston Med. and Surg. Journ.*, cii. 601; ciii. 1.
3. High pressure education. *Ibid.*, cvi. 220, and *Boston City Hospital Reports*, 3d series, 1882, pp. 179–189. Also reprinted.
4. Connection of cardiac and renal disease. *Ibid.*, civ. 457, 467.
5. Cases of various kinds. *Ibid.*, ciii. civ. cv. cvi.
6. Clinical lecture on myxoedema. *Ibid.*, 1884; cx. 385.
7. Chronic interstitial nephritis. *Medical News* (Phila.), 14 March, 1885, p. 281.
8. Some non-valvular diseases of the heart. *Boston Med. and Surg. Journ.*, 21 May, 1885; cxiii. 493.
9. Excretion of phosphoric acid by the kidneys as affected by mental labor. *Arch. of Medicine*, x. no. 1.
10. Therapeutic evidence. *Therapeutic Gazette*, 16 Feb. 1885, p. 90.

John Rayner Edmands.

Assistant in Observatory in charge of Time Service, 1883—.

1. Geodetic formulae. [Second paper.] *Appalachia*, Dec. 1881; ii. 351.
2. The mountains between Saco and Swift Rivers. [With map.] *Ibid.*, June, 1882; iii. 57.
3. Report of the committee on standard time (Wolcott Gibbs, Francis A. Walker, and J. Rayner Edmands). *Proc. Am. Acad.*, xix. 473.

Charles William Eliot.*President of the University, 1869—.*

1. Annual reports of the President of Harvard College, 1880-81—1884-85. 5 vols. Cambridge. 1882-86. 8°.
2. The constituency of the board of Overseers. *Harvard Register*, 1881; iii. 292.
3. The elective system in education. *Our Continent*, 22 Feb. 1882; i. 24.
4. The teacher's conscience. Chicago. 1882. 16°.
5. On the education of ministers. *Princeton Review*, May, 1883.
6. What is a liberal education? *Century*, June, 1884.
7. A plan of studies for the Chelsea high school. *Report of the Superintendent of Schools for 1884*. Chelsea. 1884. 8°.
8. Present relations of Massachusetts High Schools to Massachusetts Colleges. *Journ. of Education*, 8 Jan. 1885.

Calvin Ellis.*Jackson Professor of Clinical Medicine, 1867-1883.
Dean of the Medical Faculty, 1869-1883.*

1. Reports as Dean of the Medical faculty. *Annual reports of the President, 1880-1881—1881-1882.*

Memorials of Dr. Calvin Ellis, M.D., late Jackson professor of clinical medicine at the Medical School of Harvard University. [By H. I. Bowditch. With a list of Dr. Ellis's publications.] Cambridge. 1884. 8° pp. 14. From *Proc. Am. Acad.*

Ephraim Emerton.*Instructor in History, 1876-1882; Winn Professor of Ecclesiastical History, 1882—.*

1. The study of church history. Inaugural address as Winn Professor of Ecclesiastical History. *Unitarian Review*, Jan. 1883; xix. 1-18.
2. Martin Luther. *Ibid.*, Nov. 1883; xx. 435-455.
3. The historical seminary in American teaching. *Methods of Teaching History*. Edited by G. Stanley Hall. Boston. 1883. 8° pp. 191-200.
4. The practical method in higher historical instruction. *Methods of Teaching History*, edited by G. Stanley Hall. 2d edition, entirely recast and rewritten. Boston. 1885. 8° pp. 31-60.

Henry Lawrence Eustis.*Professor of Engineering, 1849-1885. Dean of the Scientific Faculty, 1871-1885.*

1. The Lawrence Scientific School. *Harvard Register*. July, 1881; iii. 375-378.
2. Reports as Dean of the Lawrence Scientific School. *Annual reports of the President, 1880-1881—1883-1884.*

Charles Carroll Everett.*Bussey Professor of Theology, 1869—.* *Dean of the Divinity School, 1878—.*

1. The Harvard Divinity School. *Harvard Register*, Jan. 1881; iii. 18.
2. Review of Mr. Savage's "Belief in God." *Unitarian Review*, June, 1881; xv. 550-556.
3. Review of Prof. Diman's "The theistic argument as affected by recent theories." *Ibid.*, Nov. 1881; xvi. 447-457.
4. Recent studies in Buddhism. *Ibid.*, Nov. 1882; xviii. 421-436.
5. Religions before Christianity. Manual for Sunday schools. Boston. 1883.
6. Fichte's Science of knowledge. A critical exposition. Chicago. 1884. 16°.
7. Dörner and "the new theology." *Unitarian Review*, Jan. 1885; xxiii. 1-19.
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9. Reports as Dean of the Divinity School. *Annual reports of the President, 1880-1881—1883-1884.*

William Gilson Farlow.*Professor of Cryptogamic Botany, 1879—.*

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2. Notes on Gymnosporangia. *Bull. Torrey Bot. Club*, Aug. 1881; viii. 85.
3. The marine Algae of New England. *U. S. Comm. of Fish and Fisheries Rept. for 1879*. Washington. 1882. pp. 1-210, plates 15.
4. American grape mildew in Europe. *Botanical Gazette*, March, 1882, 30-31.
5. Notes on New England Algae. *Bull. Torrey Bot. Club*, May, 1882, pp. 65-68.
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8. Enumeration of the Peronosporae of the United States. *Ibid.*, Oct. 1883, pp. 305-337.
9. Notes on a fungus parasite on species of Potamogeton. *Rept. Ottawa Field Naturalists' Club*. Trans., ii. 1883.
10. On Phallus togatus Ksch. *Botanical Gazette*, July, 1883.
11. Maladies des morues sèches. *Revue Mycologique*, 1884.
12. The cryptogamic flora of the White Mountains. *Appalachia*, 1884; iii. 232-251.
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Walter Faxon.

Instructor in Zoölogy, 1877-1881; *Assistant Professor of Zoölogy*, 1881—.

1. On some points in the structure of the embryonic Zoëa. [Studies from the Newport marine zoöl. lab., VIII.] *Bull. Mus. Comp. Zoöl.*, Oct. 1880; vi. 10, plates 2.
2. On some crustacean deformities. *Ibid.*, March, 1881; viii. 13, plates 2.
3. Bibliography to accompany "Selections from embryological monographs." i. Crustacea. *Ibid.*, March, 1882; ix. 6.
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6. On the so-called dimorphism in the genus Cambarus. *Am. Journ. of Science*, Jan. 1884; xxvii. 42, and *Annals and Magazine of Natural History*, Feb. 1884; 5th series, xiii. 147.
7. Descriptions of new species of Cambarus; to which is added a synonymical list of the known species of Cambarus and Astacus. *Proc. of the Am. Acad.*, 1884; xx. 107.
8. A revision of the Astacidae. Pt. i. The genera Cambarus and Astacus. *Mem. Mus. of Comp. Zoöl.*, Aug. 1885; x. 4, plates 10.
9. Preliminary catalogue of the crayfishes of Kansas. *Bull. Washburn Coll. Laboratory Nat. Hist.*, i. Topeka. 1885.
10. A list of the Astacidae in the United States National Museum. *Proc. U. S. National Mus.*, 2 Sept. 1885; viii. 356.
11. Reports on the Crustacea in the Museum of Comparative Zoölogy. 1880-1881-1884-1885. *Annual reports of the Curator*.
6. Notes on Acalephs from the Tortugas, with a description of new genera and species. [Explorations of the surface fauna of the Gulf Stream under the auspices of the U. S. Coast Survey. By Alexander Agassiz. I.] *Bull. Mus. Comp. Zoöl.*, April, 1882; ix. 7.
7. On the Acalephae of the east coast of New England. [Studies from the Newport marine zoöl. lab. XI.] *Ibid.*, 1882; ix. 8.
8. On a few Medusae from the Bermudas. [Exploration of the surface fauna of the Gulf Stream under the auspices of the U. S. Coast Survey. By Alexander Agassiz. IV.] *Bull. Mus. Comp. Zoöl.*, Aug. 1883; xi. 3.
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14. Do crows carry objects in their claws? *Ibid.*, 1884; ii. 92.
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18. Notice of Hydrozoa. *Report of Internat. Polar Exped. to Pt. Barrow, Alaska*. Washington. 1885. 4°. pp. 163-165.
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Jesse Walter Fewkes.

Assistant at the Museum of Comparative Zoölogy, in charge of Radiates, 1880—.

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2. Development of the pluteus of Arbacia. [Studies from the Newport marine zoöl. lab. X.] *Mem. Peabody Acad. of Science*. Salem. 1881. i. 6, pp. 1-10, plate 1.
3. Studies of the jelly-fishes of Narragansett Bay. [Studies from the Newport marine zoöl. lab. IX.] *Bull. Mus. Comp. Zoöl.*, Feb. 1881; viii. 8.
4. Report of the results of dredging by the U. S. C. S. Str. "Blake." XI. Report on the Acalephæ. *Bull. Mus. Comp. Zoöl.*, March, 1881; viii. 7.
5. The Newton High School. *Harvard Register*, March, 1881; iii. 139-143.
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- tentacular knob of certain Physophores. 1883; xvii. 667. — 28. Notes on American Medusae. 1884; xviii. 195-198. — 29. Notes on Medusae. *Ibid.*; 300-305. — 30. A new pelagic larva. *Ibid.*; 305-309. — 31. On the morphology of the "lateral rods" of the Ophiuroid Pluteus. *Ibid.*; 431, 432. — 32. On the larval forms of *Spirorbis borealis*, Daudin. 1885; xix. 247-257, plates xi, xii.
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34. Reports on the Radiates in the Museum of Comparative Zoölogy, 1881-1882-1884-1885. *Annual reports of the Curator*.

Thomas Fillebrown.

Professor of Operative Dentistry, 1883——.

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2. The use of the key. Read before the American Academy of Dental Science, 7 Jan. 1885 at Boston. *Dental Cosmos*, Feb. 1885; xxvii. 69.

Theodore Willis Fisher.

Clinical Instructor in Mental Diseases, 1884——.

1. Case of tumor of the brain. *Journ. of Insanity* (Utica, N. Y.), 1885. Also separately.
2. Annual report of the Boston Lunatic Hospital, 1883-1885. Boston. 8°.

Reginald Heber Fitz.

Shattuck Professor of Pathological Anatomy, 1879——.

1. Diabetic coma; its relation to acetonæmia and fat embolism. *Boston Med. and Surg. Journ.*, 10 Feb. 1881; civ. 124.
2. A case of hydrophobia of doubtful origin. With S. L. Abbot, M.D. *Ibid.*, 17 Feb. 1881; civ. 147.
3. Persistent omphalo-mesenteric remains; their importance in the causation of intestinal duplication, cyst-formation and obstruction. *Am. Journ. of the Medical Sciences*, July, 1884.
4. The recent investigations concerning the ætiology of cholera. *Boston Med. and Surg. Journ.*, 19, 26 Feb. 1885; cxii. 169, 196.
5. The article on general morbid processes in Pepper's *System of Medicine*, i. Philadelphia. 1885.

Charles Follen Folsom.

Lecturer on Mental Diseases, 1877-1882; *Assistant Professor of Mental Diseases*, 1882-1885.

1. The relation of the state to the insane. *Trans. Am. Med. Assoc.*, 1881; xxxii. 311-320.
2. Edited the 39th and 40th Annual report of births, marriages and deaths, in the state of Massachusetts. Boston. 1880, 1881. 8°.

3. The moral responsibility of the insane. *North Am. Review*, 1882; cxxxiv. 31-39.
4. Charles Guiteau, l'assassin du Président Garfield. *Ann. Med. Psych.* (Paris), 1882, 6^e serie, vii. 418-440.
5. The prevention of insanity. *Am. Pub. Health Assoc. Rept.*, 1883; vii. 83-90.
6. A lecture before the teachers of public schools on the relation of our public school system to diseases of the nervous system. Published in *Six Lectures on School Hygiene*. Boston. Ginn & Co. 1885. 8°.
7. Mental disease. An article in Pepper's *System of Medicine*. Philadelphia. 1885. 8°.
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Lester Sackett Ford.

Demonstrator of Zoölogy at the Bussey Institute, 1880-1882.

1. Notes on certain physical characters of two common grasses. *Bulletin of the Bussey Institution*, ii. pt. 4, no. 30.

William Whitworth Gannett.

Assistant in Pathological Anatomy, 1882; *Clinical Instructor in Auscultation*, 1884——.

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- 2-10. In the *Boston Medical and Surgical Journal*: 2. Rudolph Virchow. 1 Dec. 1881; cv. 524. — 3. A conviction for criminal abortion. 5 Jan. 1882; cvi. 19. — 4. A case of criminal abortion resulting in death from air-embolism. 12 Jan. 1882; cvi. 28. — 5. A case of tubal pregnancy. 15 Feb. 1883; cviii. 155. — 6. A case of strangulated umbilical hernia. 29 March, 1883; cviii. 297. — 7. A case of abdominal abscess. 26 April, 1883; cviii. 398. — 8. Diagnosis and pathology of dermoid cysts. 17 Jan. 1884; cx. 62. — 9. Acrania and spina bifida. 18 Dec. 1884; cx. 584. — 10. Marked tricuspid stenosis without symptoms. cxii. 157.

George Minot Garland.

Assistant in Physiology, 1877-1881; *Assistant in Clinical Medicine*, 1881——.

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2. Diseases of the pleura. Article contributed to the *Supplement to Ziemssen's Cyclopaedia of the Practice of Medicine*. 1881. 8°. p. 271.

3. Percussion outlines. With E. G. Cutler, M.D. Boston. 1882. 8° pp. 15.
4. Acute lobular pleuro-pneumonia. *Boston Med. and Surg. Journ.*, 6 April, 1882; cvi. 319.
5. Theories regarding the mechanism of the inorganic cardiac murmurs. *Ibid.*, 12 July, 1883; cix. 25.
6. Cocaine in urethrotomy. *Ibid.*, 5 Feb. 1885; exii. 127.
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10. Diseases of the aorta. Article contributed to Pepper's *System of Medicine*, iii. Philadelphia. 1885. 8°. p. 800.

Samuel Garman.

Assistant in Herpetology and Ichthyology,
1873—.

1. Synopsis and descriptions of the American Rhinobatidae. *Proc. U. S. Nat. Mus.*, 1880, p. 516.
2. New species of Selachians in the Museum collection. *Bull. Mus. Comp. Zool.*, Oct. 1880; vi. 11.
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4. New and little-known reptiles and fishes in the Museum collection. *Bull. Mus. Comp. Zool.*, Feb. 1881; viii. 3.
5. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XII. Report on the Selachians. *Ibid.*, March, 1881; viii. 11.
6. The fishes at the Museum of Comparative Zoology. *Harvard Register*, July, 1881; iii. 430.
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10. A species of *Pseudis* from the Rio Arassuahy, Brazil. *Science Observer*, April, 1883.
11. On certain reptiles from Brazil and Florida. *Ibid.*, April, 1883.
12. The reptiles and batrachians of North America. Published by permission of the Kentucky Geological Survey. Yeoman Press. Frankfort, Ky. 1883 [1884]. pp. (4) 185, plates 9. *Mem. Mus. Comp. Zool.*, viii. 3.
13. The North American reptiles and batrachians. A list of the species occurring north of the isthmus of Tehuantepec, with references. *Bull. Essex Inst.*, 1884, xvi.
14. An extraordinary shark. *Chlamydoselachus*. *Ibid.*, 1884, xvi.
15. A species of *Heptabranhias* supposed to be new. *H. pectorosus*. *Ibid.*, 1884, xvi.
16. A peculiar Selachian. *Science*, 1 Feb. 1884; iii. 116.
17. The oldest living type of Vertebrata, *Chlamydoselachus*. *Ibid.*, iii. 345.
18. The oldest living type of vertebrates. *Ibid.*, iv. 484.
19. On the use of polynomials as names in zoology. *Proc. Bost. Nat. Hist. Soc.*, March, 1884.
20. The reptiles of Bermuda. *Bull. U. S. National Mus.*, no. 25. 1884.
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24. On the frilled shark. *Proc. Am. Assoc. for advancement of Science*, 1885; xxxiii. 537.
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27. Reports on reptiles, batrachians, Selachians, and fishes in the Museum of Comparative Zoology. *Annual reports of the Curator*, 1880-1881-1884-1885.

Lewis Edwards Gates.

Assistant in Forensics, 1884-1885; Instructor in Forensics, 1885—.

1. Psyche and Pan. (Sonnet.) *The Critic*, 9 May, 1885; iii. 223.

Wolcott Gibbs.

Rumford Professor and Lecturer on the application of Science to the Useful Arts, 1863—.

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2. Report of the committee on standard time (Wolcott Gibbs, Francis A. Walker, and J. Rayner Edmands). *Proc. Am. Acad.*, xix. 473.
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William Benjamin Goldsmith.

Clinical Instructor in Mental Diseases, 1884—.

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2. Reports of the physician and superintendent of the Danvers Lunatic Hospital, 1884-1885.

George Lincoln Goodale.

Professor of Botany, 1878—. *Director of the Botanic Garden, 1879—.*

1. Wild flowers of North America. Boston. 1882. 4°. pp. 205. 50 plates in colors, by Isaac Sprague.
 2. Vegetable histology. New York. 1885. 8°. pp. 194, *illustr.*
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William Watson Goodwin.

Eliot Professor of Greek Literature, 1860—.

1. A school Greek grammar. London. 1882. pp. xxii. 277.
2. On the text and interpretation of certain passages in the Agamemnon of Aeschylus. (Reprinted from the *Trans. of the Am. Philol. Assoc.*, 1877.) *Journ. of Philol.* (London and Cambridge), 1882; x. 214-232.
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Allen Walton Gould.

Tutor in Latin, 1878-1881.

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George Franklin Grant.

Demonstrator of Mechanical Dentistry, 1874-1884; Instructor in treatment for Cleft Palate and Cognate Diseases, 1884—.

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Asa Gray.

Fisher Professor of Natural History, 1842—. *Director of the Herbarium, 1883—.*

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John Chipman Gray.

Story Professor of Law, 1875-1883; *Royall Professor of Law*, 1883—.

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Charles Montravelle Green.

Assistant in Obstetrics, 1883-1885; *Instructor in Obstetrics*, 1885—.

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John Orne Green.

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Francis Boott Greenough.

Clinical Instructor in Syphilis, 1875—.

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James Bradstreet Greenough.

Assistant Professor of Latin, 1873-1883; *Professor of Latin*, 1883—.

1. The greater poems of Virgil with special vocabulary. Boston. 1884. 2 vols. 8°.
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Francis Barton Gummere.

Instructor in English, 1881-1882.

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Hermann August Hagen.

Professor of Entomology, 1870—.

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Edwin Herbert Hall.

Instructor in Physics, 1881—.

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Granville Stanley Hall.

University Lecturer on Pedagogy and on contemporary German Philosophy, 1880-1881; *University Lecturer on Pedagogy*, 1881-1883.

1. Aspects of German culture. Boston. 1881. 12°. pp. 320.
2. American and German methods of teaching. *Harvard Register*, June, 1881; iii. 319-322.
3. The moral and religious education of children. *Princeton Review*, Jan. 1881.
4. The education of the will. *Ibid.*, Nov. 1882.
5. Optical illusions of motion. (With Dr. H. P. Bowditch.) *Journ. of Physiology*, 1882; iii. 297-307, plate 1.
6. Reaction time and attention in the hypnotic state. *Mind*, April, 1883; viii. 170-182.
7. Chairs of pedagogy in universities. *Proc. National Assoc. of Superintendents of Education*. Washington. 1882.
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12. The new departure in education. *North Am. Review*, Feb. 1885.
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Charles Edward Hamlin.

Assistant in Conchology and Palaeontology,
1877-1885.

1. The collection of mollusca. *Harvard Register*, June, 1881; iii. 330-332.
2. Observations upon the physical geography and geology of Mount Ktaadn and the adjacent district. *Bull. Mus. Comp. Zööl.*, June, 1881; vi. 5.
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Francis Augustine Harris.

Demonstrator of Medico-Legal Examinations,
1881—.

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Albert Bushnell Hart.

Instructor in American History, 1883—.

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2. Outline of the course in constitutional and political history of the United States, given at Harvard College in the academic year 1884-85. [Printed.] Cambridge. 1884-85. 12°.
3. The coercive powers of the United States government. Part iii. Eisenach. 1885. 8°.
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George Trumbull Hartshorn.

Assistant in Organic Chemistry, 1883-1884.

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These papers belong to the series: *Contributions from the chemical laboratory of Harvard College.*

Frederic Henry Hedge.

Professor of German, 1872-1881.

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2. Ethical systems. *Ibid.*, April, 1883; cxxxvi. 375-388.
3. Luther and his work. Read before the Mass. Historical Society, 10 Nov. 1883. *Atlantic Monthly*, Dec. 1883; lii. 805.
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Adams Sherman Hill.

Boylston Professor of Rhetoric and Oratory,
1876—.

1. The principles of rhetoric and their application. [Printed with raised letters for the use of the blind.] Louisville, Ky. 1881. 4°.
2. English in the pulpit. A lecture delivered at the Divinity School. *Christian Register*, 19, 26 June, 3 July, 1884.
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Henry Barker Hill.

Assistant Professor of Chemistry, 1874-1884;
Professor of Chemistry, 1884—.

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William Barker Hills.

Instructor in Chemistry, 1874-1884; *Assistant Professor of Chemistry*, 1884—.

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Oliver Wendell Holmes.

Parkman Professor of Anatomy, 1847-1882; *Emeritus*, 1882—.

1. The iron gate and other poems. Boston, etc. 1880. 16°.
2. Poetical works. 2 vols. Boston, etc. 1881. 24°.
3. The pulpit and the pew. *North Am. Review*, Feb. 1881; cxxxiv. 117-138.
4. Poem read at the centennial anniversary dinner of the Mass. Medical Society, 8 June, 1881. *Boston Med. and Surg. Journ.*, 23 June, 1881; civ. 577-580.
5. Address and poem at the Centennial celebration of the American Academy of Arts and Sciences, held at Boston, 26 May, 1880. *Mem. Am. Acad.* XI. (Centennial vol.), pt. 1. Cambridge. 1882. pp. 11-13.

6. Sonnet written for the annual dinner of the Harvard Club of New York, Feb. 21, 1882. *Ibid.*, 23 Feb. 1882; cvi. 187.
7. Medical highways and byeways. A lecture delivered before the students of the medical department of Harvard University [10 May, 1882]. Boston. 1882. 12° pp. 31. Also *Boston Med. and Surg. Journ.*, 1 June, 1882; cvi. 505-513.
8. Farewell address to the Medical School of Harvard University, Tuesday, 28 Nov. 1882. Cambridge. 1882. 8° pp. 24. Also *Boston Med. and Surg. Journ.*, 7 Dec. 1882; cvii. 529-534.
9. Address at the one hundredth anniversary of the foundation of the Medical School of Harvard University. Boston. 1883. 8° pp. 35.
Also under the title "The new century and the new building of the Medical School of Harvard University," in the *Boston Med. and Surg. Journ.*, 18 Oct. 1883; cix. 361-368.
10. Pages from an old volume of life. A collection of essays. 1857-1881. Boston, etc. 1883. 8°.
11. Medical essays, 1842-1882. 2d edition. Boston, etc. 1883. 8°.
12. Grandmother's story of Bunker Hill. Illustrated by H. W. Vickar. Boston. 1883. sq. 8°.
13. The autocrat of the breakfast-table. New and revised edition with illustrative notes. Boston, etc. 1883. 8° *Port.*
14. The professor at the breakfast-table. New edition, with new preface. Boston, etc. 1883. 12°.
15. The poet at the breakfast-table. [New edition.] Boston, etc. 1883. 8° *Front.*
16. Elsie Venner. New edition [with new preface]. Boston, etc. 1883. 8°.
17. The guardian angel. New edition, revised. Boston, etc. 1883. 12°.
18. Illustrated poems. Boston, etc. 1885. 1. 8°.
19. Ralph Waldo Emerson. Boston, etc. 1885. 16°.
20. A mortal antipathy. First opening of the new portfolio. Boston, etc. 1885. 8°.
Originally appeared under the title "The new portfolio" in the *Atlantic Monthly*, 1885.
21. A welcome to Dr. Benjamin Apthorp Gould, on his return from South America, after fifteen years devoted to cataloguing the stars of the southern hemisphere.
A poem read at the dinner in honor of Dr. Gould given at the Hotel Vendome, Boston, 6 May, 1885, and published in *Addresses at the complimentary dinner*, etc. Lynn. 1885. 8°. p. 22. Also separately.
- 22-34. In the *Atlantic Monthly*: 22. Benjamin Peirce: astronomer, mathematician. 1809-1880. (Poem.) Dec. 1880; xlv. 823. — 23. Boston to Florence. (Sonnet.) Sent to "The Philological Circle" of Florence, for its meeting in commemoration of Dante, 27 January 1881, anniversary of his first condemnation. March, 1881; xlvii. 412. — 24. Post-prandial. Phi Beta Kappa, 1881. (Poem.) Sept. 1881; xlviii. 365. — 25. Before the curfew. 1829-1882. (Poem.) March, 1882; xlix. 386. — 26. Our dead singer. (Poem.) June, 1882; xlix. 721. — 27. At the summit. (Poem.) Aug. 1882; l. 164. — 28. An after-breakfast talk. Jan.

1883; li. 65-75. — 29. A loving-cup song. 1829-1883. March, 1883; li. 349. — 30. Pillow-smoothing authors. With a prelude on night-caps, and comments on an old author. April, 1883; li. 457-464. — 31. The flaneur. Boston Common, 6 December, 1882. During the transit of Venus. (Poem.) May, 1883; li. 674-677. — 32. King's Chapel. (Poem.) Sept. 1883; lii. 322. — 33. Ave. Prelude to "Illustrated poems" [no. 17]. Oct. 1884; liv. 456. — 34. Thomas Gold Appleton. June, 1884; liii. 848-850.

John Homans.

Clinical Instructor in the Diagnosis and Treatment of Ovarian Tumors, 1881—.

- 1-17. In the *Boston Medical and Surgical Journal*: 1. A year's work in ovariectomy. 20 Jan. 1881; civ. 50-62. — 2. Ovariectomy. 21 April, 1881; civ. 374. — 3. Thirty-two consecutive cases of ovariectomy during the year 1881. 19 Jan. 1882; cvi. 73. — 4. A case of Listerian ovariectomy in which the bladder was freely laid open, uninterrupted recovery. 16 Feb. 1882; cvi. 153-160. — 5. One hundred cases of antiseptic ovariectomy. 2 Nov. 1882; cvii. 413. — 6. Two cases of removal of immense fatty tumors by abdominal section. 11 Jan. and 8 March, 1883; cviii. Also *Lancet* (London), 17 March, 1883; p. 449. — 7. A case of two-horned uterus (uterus-bicornis). 8 Nov. 1883; cix. 236-246. Also *Lancet* (London), 3 Nov. 1883; p. 767. — 8. Myxosarcoma of the left kidney. 13 Dec. 1883; cix. 567. — 9. The operation of ovariectomy. 3 April, 1884; cx. 337. — 10. Two cases of abdominal section to discover the cause of intestinal obstruction. 7 and 14 Feb. 1884; cx. 145, 156. — 11. Nephrectomy for the removal of cancerous or sarcomatous tumours of the kidney. 17 Jan. 1884; cx. 73. — 12. Four cases of strangulated hernia. 1 May, 1884; cx. 416. — 13. Exploratory abdominal incisions. 1 and 8 Jan. 1885; cxii. 10, 25. — 14. Unilocular ovarian cyst. 12 Feb. 1885; cxii. 158. — 15. Spray in ovariectomy. 26 Feb. 1885; cxii. 213. — 16. Ten cases of removal of uterine tumours by laparotomy. 26 March and 2 April, 1885; cxii. 313, 318. — 17. Fibroid tumour of the ovary weighing twenty-two pounds. Lipoma of thigh weighing twelve pounds. Sarcoma of leg. 14 May, 1885; cxii. 476.

Oliver Whipple Huntington.

Assistant in Chemistry, 1882-1884; Instructor in Mineralogy, 1884—.

- On the spectrum of arsenic. *Proc. Am. Acad.*, 1881; xvii. 35. Also *Am. Journ. of Science*, 1881; 3d series, xxi. 214.
- Revision of the atomic weight of cadmium. *Ibid.*, 1882; xvii. 28.
- On the crystalline form of chlordinbromacrylic acid, $C_6ClBrO_2H_2$. *Ibid.*, 1883; xviii. 282.
- Logarithms of numbers to five places of decimals. Cambridge. 1883. 1.8°.

- Crystallographic notes. *Proc. Am. Acad.*, 1885; xxi. 222.

1 belongs to the series *Contrib. phys. lab. Harv. Coll.*; 2, 3, 5 belong to series *Contrib. chem. lab. Harv. Coll.*

Charles Loring Jackson.

Assistant Professor of Chemistry, 1871-1881; Professor of Chemistry, 1881—.

- On paraiodbenzyl compounds. With C. F. Mabery. *Am. Chem. Journ.*, Oct. 1880; ii. 250.
- Synthesis of anthracene and phenanthrene from orthobrombenzylbromide. With J. F. White. (Researches on the substituted benzyl compounds. IX.) *Proc. Am. Acad.*, 1881; xvi. 63-77.
- The relative chemical activity of certain substituted benzylbromides. (Researches on the substituted benzyl compounds. X.) *Ibid.*, 241. Also *Am. Chem. Journ.*, iii. 252.
- Researches on certain substituted benzyl compounds. XI. *Ibid.*, 1881; xvi. 252. Also *Am. Chem. Journ.*, iii. 246.
- Ueber Curcumin. *Berichte d. deutsch. chem. Gesellsch.*, 1881; p. 485.
- On curcumin. With A. E. Menke. (On certain substances obtained from turmeric. I.) *Proc. Am. Acad.*, 1882; xvii. 110. Also *Am. Chem. Journ.*, iv. 77.
- On curcumin. With A. E. Menke. (On certain substances obtained from turmeric. II.) *Ibid.*, 1883; xviii. 1. Also *Am. Chem. Journ.*, iv. 360.
- On turmerol. With A. E. Menke. (On certain substances obtained from turmeric. III.) *Ibid.*, 1883; xviii. 8. Also *Am. Chem. Journ.*, iv. 368.
- Certain parabrombenzyl compounds. With G. T. Hartshorn. (Researches on the substituted benzyl compounds. XII.) *Ibid.*, 1883; xviii. 86. Also *Am. Chem. Journ.*
- A new method of preparing borneol from camphor. With A. E. Menke. *Ibid.*, 1883; xviii. 93. Also *Am. Chem. Journ.*
- On curcumin. With A. E. Menke. (On certain substances obtained from turmeric. IV.) *Ibid.*, 1884; xix. 211. Also *Am. Chem. Journ.*
- On turmerol. With A. E. Menke. (On certain substances obtained from turmeric. [V.]) *Ibid.*, 1884; xix. 215. Also *Am. Chem. Journ.*
- On the action of phosphorous trichloride on aniline. With A. E. Menke. *Am. Chem. Journ.*, iv. 380.
- On the action of phosphorous trichloride on aniline. With A. E. Menke. *Proc. Am. Acad.*, 1884; xix. 222.
- On the reduction of camphor to borneol. *Ibid.*, 1885; xx. 163. Also *Am. Chem. Journ.*
- On the action of chronic superfluoride on benzoic acid. With G. T. Hartshorn. *Proc. Am. Acad.*, 1885; xxi. 187. Also *Berichte d. deutsch. chem. Gesellsch.*, 1885; p. 1993.
- Laboratory experiments in Chemistry I. Cambridge. 1885.

Nos. 1-16 belong to the series: *Contributions from the chemical laboratory of Harvard College.*

Adrien Jacquinot.

Assistant Professor of French, 1876-1883.

1. L'Université Harvard. *Revue Internationale de l'Enseignement*, 1881-1884; i. 50; ii. 23, 224, 319; iv. 530; vii. 262.
2. An historical sketch of Harvard University. Translated by Henry Norman. *Harvard Register*, 1881; iii. 385.

Translation of the first article of the above series. Also printed separately.

William James.

Assistant Professor of Physiology, 1876-1880; Assistant Professor of Philosophy, 1880-1885; Professor of Philosophy, 1885—.

1. Great men, great thoughts, and the environment. *Atlantic Monthly*, Oct. 1880.
2. Reflex action and theism. *Unitarian Review*, Nov. 1881.
3. On some Hegelisms. *Mind*, April, 1882.
4. Rationality, activity, and faith. *Princeton Review*, July, 1882.
5. The sense of dizziness in deaf mutes. *Am. Journal of Otology*, Oct. 1882.
6. On some omissions of introspective psychology. *Mind*, Jan. 1884.
7. What is an emotion? *Ibid.*, April, 1884.
8. Absolutism and empiricism. *Ibid.*, April, 1884.
9. The dilemma of determinism. *Unitarian Review*, Sept. 1884.
10. On the function of cognition. *Mind*, Jan. 1885.
11. The literary remains of Henry James. Edited with an introduction by William James. Boston. 1885. 8°.

Leonard Parker Kinnicutt.

Assistant in Chemistry, 1880-1883.

1. On indirect determination of chlorine and bromine by electrolysis. *Am. Chem. Journ.*, 1882; iv. 22. Also *Proc. Am. Acad.*, 1882; xvii. 91.
2. The decomposition of phenyltribrompropionic acids by water. *Ibid.*, 1882; iv. 24.
3. Modification of Noack's method of preparing carbon monoxide. *Ibid.*, 1883; v. 43.
4. Volumetric determination of combined nitrous acid. With J. U. Nef. *Ibid.*, 1883; v. 388. Also *Proc. Am. Acad.*, 1883; xviii. 275.
5. β -Phenyltribrompropionic acids. With G. M. Palmer. *Ibid.*, 1883; v. 383. Also *Proc. Am. Acad.*, 1883; xviii. 277.
6. Meteoric iron from the altar mounds in the little Miami valley, Ohio. *17th report of the Peabody Museum*, 1884; p. 381.

Nos. 4 and 5 belong to the series: *Contributions from the chemical laboratory of Harvard College.*

Frederick Irving Knight.

Instructor in Laryngology, 1872-1882; Assistant Professor of Laryngology, 1882—.

1. On the treatment of posterior hypertrophy of the inferior turbinated bones. *Phil. Med. News*, 1882; xl. 66.
2. Opening address at the first annual meeting of the American Climatological Association at Washington, D.C. *New York Med. Journ.*, 28 June, 1884.
- 3-10. In the *Archives of Laryngology*, of which Dr. Knight was associate editor, 1880-1883:
 3. Three cases of lupus of the pharynx and larynx. July, 1881.
 4. Review of Bosworth on "Diseases of the throat and nose." *Ibid.*
 5. Address, as President, at the fourth annual congress of the American Laryngological Association. July, 1882.
 6. Case of aphonia spastica. *Ibid.*
 7. Case of rheumatic (?) paralysis of the right vocal cord; gradual complete recovery; followed nine years later by rheumatic (?) paralysis of the left vocal cord, also with gradual complete recovery. April, 1883.
 8. Chorea laryngis. July, 1883.
 9. Disappearance of a tracheoma of the vocal cord without local treatment. Oct. 1883.
 10. Traumatic paralysis of the posterior crico-arytenoid muscle. *Ibid.*
- 11-14. In the *Boston Medical and Surgical Journal*:
 11. Chronic nasal catarrh, removal of hypertrophied tissue. 7 Feb. 1884; cx. 132.
 12. Laryngeal complication of pulmonary phthisis. 5 June, 1884; cx. 541.
 13. Cocaine hydrochlorate in the larynx. 27 Nov., 4 Dec. 1884; cxi. 515, 550.
 14. Reports on progress in the treatment of thoracic diseases. 17 Feb., 3 March, 1881; civ. 150, 200. — 1, 8 Sept. 1881; cv. 197, 225. — 16, 23 Feb. 1882; cvi. 157, 173. — 24, 31 Aug. 1882; cvii. 177, 203. — 1, 8 March, 1883; cviii. 197, 223. — 16, 27 Aug. 1883; cix. 151, 179.

William Coolidge Lane.

Assistant in charge of the Catalogues at the Library, 1881—.

1. The Carlyle collection. *Harvard University Bulletin*, Jan. 1883; vol. iii, no. 24, pp. 53-56. Incomplete.
2. Review of the Fall River Public Library catalogue. *Library Journal*, May, 1883; viii. 80-82.
3. The Dante collections in the Harvard College and Boston Public Libraries. Part i. Cambridge. 1885. pp. 18. [Bibliographical contributions, no. 7. Reprinted from the *Harvard University Bulletin*, May, 1885; no. 31.] Incomplete.
4. Index to recent reference lists, 1884-1885. Cambridge. 1885. pp. 8. [Bibliographical contributions, no. 20.]
5. Edited the Harvard University catalogue, 1883-1884, 1884-1885. 2 vols. Cambridge. 1884, 1885. 8°.

Christopher Columbus Langdell.

Dane Professor of Law, 1870—. *Dean of the Law Faculty, 1870—.*

1. A summary of equity pleading. Second edition. Cambridge. 1883. 8°.
2. Reports as Dean of the Law faculty. *Annual reports of the President, 1880-1881-1884-1885.*

Charles Rockwell Lanman.

Professor of Sanskrit, 1880—.

1. Recent publications in the field of Indian antiquities. *Am. Journ. of Philol.*, 1880; i. 345-351.
2. The study of Sanskrit. *Harvard Register*, Feb. 1881; iii. 69-72.
3. Abstract of a course of six public lectures on the Vedas. *Harvard University Bulletin*, no. 18, April, 1881; pp. 169-170.
4. Review of John Peile's "Notes on the Nalopākhyānam." *Am. Journ. of Philol.*, 1881; ii. 516-519.
5. A Sanskrit reader: with vocabulary and notes. Boston. 1884. 1. 8°. pp. xx., 293. Also, London. 1884.
6. On the stanza, Rigveda x.18.14, as illustrating the varieties of cumulative evidence that may be used in the criticism of the Veda. (American Oriental Society, Proceedings at Boston, May, 1884.) *Journal of the society*, xi. pp. xcxi.-xcxiii.
7. On the Dātavya Bhārata Kāryālaya in Calcutta. *Ibid.*; pp. exciv.-excvi.
8. On the typographical requirements for printing Sanskrit in transliteration. (American Oriental Society, Proceedings at Baltimore, Oct. 1884.) *Ibid.* pp. ccxxvii.-ccxxviii.
9. On a group of Sanskrit derivatives (çaraṇā, çārman, çārira, etc.). *Proceedings of the sixteenth annual session of the American Philological Association*, held in Hanover, N. H., July, 1884, pp. vii.-x. [Accompanies vol. xv. of the *Transactions*.]
10. On multifarious presents and on transfers of conjugation in the Sanskrit verb-system. (American Oriental Society, Proceedings at Boston, May, 1885.) *Journal of the society*, xiii. pp. xxxvi.-xxxix.

11. On a Sanskrit manuscript of a Hindu treatise on logic, the Nyāya-siddhānta-mañjari. *Ibid.*, pp. xl.-xli.

- 12-15. Edited, as Secretary of the Association, the Proceedings of the American Philological Association at the annual sessions, as follows: 12th, held in Philadelphia, Pa., July, 1880; 13th, held in Cleveland, O., July, 1881; 14th, held in Cambridge, July, 1882; 15th, held in Middletown, Conn., July, 1883. 4 vols.

The Proceedings of the 12th session were published at Hartford, Conn., 1881; the others were published in Cambridge, 1881, 1882, 1884. 8°. pp. 42, 45, lxvii., xlvi.

- 16-19. Edited, as Secretary, the Transactions of the American Philological Association, 1880-1883; vol. xi.-xiv. 4 vols.

Vol. xi. was published at Hartford, Conn., 1881; the rest appeared at Cambridge, 1882, 1882, 1884. 8°. pp. 153, 104, 100, 79.

- 20-22. Edited, as Corresponding Secretary, the Proceedings of the American Oriental Society at Boston, May, 1884; at Baltimore, Md., Oct. 1884; at Boston, May, 1885. 3 vols. New Haven, Conn. 1884, 1885. 8°. pp. xvii., xxix., xlv. *Journal of the society*, xi. pp. clxxvi.-ccxxxi. and xiii. pp. i.-xlv.

James Laurence Laughlin.

Instructor in Political Economy, 1878-1883; Assistant Professor of Political Economy, 1883—.

1. Colonization. *International Review*, July, 1881; xi. 88-96.
2. The refunding bill of 1881. *Atlantic Monthly*, Feb. 1882; xlix. 195-205.
3. The French panic. *Ibid.*, May, 1882; xlix. 695-703.
4. Evils of the sub-treasury system. *North Am. Review*, Dec. 1883; cxxvii. 552-564.
5. J. S. Mill's "Principles of political economy" abridged, with critical, explanatory, and bibliographical notes, and a sketch of the history of political economy. New York. 1884. 8°. pp. 658. [2d, 3d ed. 1885.]
6. The silver danger. *Atlantic Monthly*, May, 1884; liii. 677-681.
7. Workmen's grievances. *North Am. Review*, May, 1884; cxxviii. 510-520.
8. The new party. *Atlantic Monthly*, June, 1884; liii. 837-840.
9. The study of political economy: hints to students and teachers. New York. 1885. 16°. pp. 153.
10. Political economy and the civil war. *Atlantic Monthly*, April, 1885; lv. 444-450.
11. The character and discipline of political economy. *Popular Science Monthly*, April, 1885; xxvi. 721-731.
12. Methods of teaching political economy. *Ibid.*, May, 1885; xxvii. 31-40.
13. Shall silver be demonetized? *North Am. Review*, June, 1885; cxl. 492-497.
14. Our political delusion. *Atlantic Monthly*, June, 1885; lv. 826-835.

Joseph Lovering.

Hollis Professor of Mathematics and Natural Philosophy, 1838—. *Director of the Jefferson Physical Laboratory, 1884—.*

1. Boston and science. *The Memorial History of Boston*. Ed. by J. Winsor. Vol. iv. Boston. 1880. pp. 489-526.
2. Address at the dedication of a mural monument to President James Walker. *Services at the dedication of a mural monument to James Walker, D.D., LL.D.* Cambridge. 1884. pp. 36-39.

- 3-9. In the *Proceedings of the American Academy*: 3. Address on the presentation of the Rumford medal to Professor J. Willard Gibbs. 1881; xvi. 415-420. — 4. Anticipations of the Lissajous-curves. *Ibid.*, pp. 292-298. — 5. Biographical notice of Richard Henry Dana. 1882; xvii. 399-403. — 6. Life and scientific work of Edward Desor. *Ibid.*, pp. 422-424. — 7. Life and scientific work of John William Draper. *Ibid.*, pp. 424-429. — 8. Address on the presentation of the Rumford medal to Professor H. A. Rowland. 1884; xix. 478-481. — 9. Life and scientific work of General Sir Edward Sabine. *Ibid.*, pp. 560-564.
10. Edited vol. xvii. of the *Proceedings of the American Academy of Arts and Sciences*. Boston. 1882. 8°.
11. Edited *Memoirs of the American Academy of Arts and Sciences*: vol. x. pt. ii. pp. 357-228, and vol. xi. (Centennial vol.) pt. i. pp. 103. Cambridge. 1882. 4°.

James Russell Lowell.

Smith Professor of the French and Spanish Languages and Literature and Professor of Belles-Lettres, 1855—.

1. Address before the Edinburgh Philosophical Institute. *Scotsman*, 8 Nov. 1880.
2. Mercedes. Sonnet. *Harper's Monthly Mag.*, Jan. 1881; xlii. 250.
3. The prison of Cervantes. Sonnet. *Ibid.*, *ibid.*
4. Phoebe. A poem. *Century*, Nov. 1881; xxiii. 90.
5. Estrangement. A poem. *Ibid.*, May, 1882; xxiv. 16.
6. Speech at the three hundredth anniversary of Emmanuel College, Cambridge, England, Wednesday, 18 June, 1884. *Commemoration of the Three Hundredth Anniversary of the Foundation*, 1884.
7. Address as President of the Wordsworth Society. *Proceedings*, 1884.
8. To O. W. H [olmes] on his 75th birth-day. *Critic*, 20 Sept. 1884; v. 133.
9. Democracy. An inaugural address as President of the Birmingham and Midland Institute. *Critic*, 1 Nov. 1884; v. 211-215 (copied from the *Pall Mall Gazette*).
10. Speeches at the tercentenary festival of the University of Edinburgh, Scotland, April, 1885. *Records of the Tercentenary Festival*. Edinburgh, etc. 1885. 4°.
11. Sonnet to J. G. Whittier. *Proceedings at the presentation of a portrait of Whittier to the Friends' School, Providence, R. I.* 1885. 8°. p. 82.
12. Address on unveiling a bust of Coleridge in Westminster Abbey. *Times*, 8 May, 1885.

Mr. Lowell delivered other addresses in England, which were reported in the newspapers there and copied by those in the United States. A volume containing many of these addresses, including "Democracy," is in press.

Frederick Lutz.

Tutor in German, 1881-1885.

1. German derivatives. Cambridge. 1883. 8°.

Charles Parker Lyman.

Professor of Veterinary Medicine, 1882—.

1. Contagious pleuro-pneumonia, or lung-plague of cattle; where and to what extent it exists. *Senate Misc. Docs.*, 46th Congr., 2d sess. vol. ii., no. 74. Washington, D.C. 1880. pp. 17.

A report to the U.S. Commissioner of Agriculture, locating by counties the infected districts of the United States. With a map. Made 16 April, 1880.

2. Contagious pleuro-pneumonia. *Senate Executive Docs.*, 46th Congr., 3d sess., vol. i., no. 5. Washington, D.C. 1881. pp. 75, plates 6.

A report to the U. S. Commissioner of Agriculture concerning Dr. Lyman's inspection of American cattle landed in Great Britain, and their condition regarding the existence among them of pleuro-pneumonia. Also regarding the effect of the condition upon the trade (export) of live cattle. Transmitted by the President to the Senate, Dec. 13, 1880.

3. Report upon contagious pleuro-pneumonia to the Commissioner of Agriculture. Special report of the Dept. of Agriculture, no. 31. Washington, D.C. 1881. pp. 20, *illustr.*
4. Contagious pleuro-pneumonia. Third report. *Ann. rept. Commissioner of Agriculture for* 1880. Washington, D.C. 1881. pp. 572-584, plates 7.
5. Contagious pleuro-pneumonia. Final report. *Ibid.*, for 1881. Washington, D.C. 1882. pp. 352-355.

Theodore Lyman.

Assistant in Zoölogy, 1860—.

1. A new structural feature, hitherto unknown among Echinodermata, found in deep-sea ophiurans. *Anniversary memoirs of the Boston Natural History Society*. Boston. 1880. 4°.
2. The stomach and genital organs of Astrophytiæ. *Bull. Mus. Comp. Zool.*, Feb. 1881; viii. 6, pp. 117-125, plates 2.
3. Report on the Ophiuroidea dredged by H. M. S. "Challenger" during the years 1873-1876. *Report on the scientific results of the voyage of H. M. S. "Challenger."* . . Prepared under the superintendence of Sir C. Wyville Thomson. Zoölogy. Vol. V. London. 1882. 4°. pp. 1-386, plates 48.
4. Reports on the results of dredging by the U. S. C. S. Str. "Blake." XX. Report on the Ophiuroidea. (May, 1883.) *Bull. Mus. Comp. Zool.*, x. 6, pp. 227-287, plates 8.
5. Addresses before the American Fish Cultural Association at the 13th ann. meeting, Washington, 13 May, 1884. *Trans. of Assoc.*, 1884. Also *19th rept Mass. Comm. Fish*, 1884, p. 36.

David Gordon Lyon.

Hollis Professor of Divinity, 1882—.

1. Was there at the head of the Babylonian pantheon a deity bearing the name of El? *Proc. Am. Oriental Society*, Boston, May, 1883; pp. xviii.—xxii.
2. Recent Babylonian research. *Science*, 13 July, 1883; ii. 40–41.
3. The results of modern Biblical criticism. *Old Testament Student* (Chicago), Dec. 1883; iii. 102–110. Also *Independent*, 13 Dec. 1883; pp. 4–6.
4. Keilschrifttexte Sargon's Königs von Assyrien (722–705 v. Chr.). Nach den Originalen neu herausgegeben, umschrieben, übersetzt und erklärt. Leipzig. 1883. 4^o. pp. xvi., 93.
5. The Biblical writers and their critics. *Religious Herald* (Richmond), 17 Jan. 1884.
6. Isaiah's double authorship. *Ibid.*, 14 Feb. 1884.
7. On the study of Assyrian. *Old Testament Student* (Chicago), March, 1884; iii. 249–252.
8. Books for the study of Assyrian. *Hebraica* (Chicago), March, 1884; i. 14, 15.
9. Assyrian research and the Hebrew lexicon. *Bibliotheca Sacra*, April, 1884; xli. 376–385.
10. Semitic notes. *Science*, 17 Oct. 1884; iv. 378.
11. Assyrian study: Its bearings on the Old Testament. *Christian Register*, 9, 16 April, 1885; lxiv. 228, 229, 244, 245.
12. Assyrian inscriptions in the Wolfe collection. *Independent*, 3, 10 Sept. 1885.
13. On the new edition of the cylinder inscription of Assurbanipal. *Proc. Am. Oriental Society*, New York, Oct. 1882; p. ix., x.
14. Early Oriental history. (Notice of L. Menard's *Histoire des anciens peuples de l'Orient*.) *Science*, 16 Feb. 1883; i. 41, 42.
15. The beginnings of history (Lenormant's). *Christian Register*, 1 March, 1883; lxii. 138.
16. Assyriology: A new quarterly. *Andover Review*, March, 1884; i. 326–328.
17. Cheyne's Psalms. *Christian Register*, 17 July, 1884; lxiii. 458.
18. Das Babylonische Nimrodepot (Haupt's). *Andover Review*, Sept. 1884; ii. 330–331.
19. On the second part of the fifth volume of the Cuneiform inscriptions of Western Asia. *Proc. Am. Oriental Society*, Baltimore, Oct. 1884; p. xvi.
20. A brief account of some recent Assyriological publications. *Ibid.*, Boston, May, 1885; p. xxiii., xxiv.
21. Third edition of Delitzsch's *Assyrische Lesestücke*. *Hebraica* (Chicago), Oct. 1885; ii. 61, 62.

Charles Frederic Mabery.

Assistant in Chemistry, 1875–1883.

- 1–2. In *American Chemical Journal*: 1. On paraiodobenzyl compounds. With C. L. Jackson. Oct. 1880; ii. 250.—2. On the ethers of uric acid. With H. B. Hill. Nov. 1880; ii. 305.

- 3–15. In *Proceedings of the American Academy*: 3. Substituted acrylic acids from brompropionic acid. With H. B. Hill. 1881; xvi. 211 [June, 1881; iii. 172.].—4. On diiodobromacrylic and chlorbromacrylic acids. With Rachel Lloyd. *Ibid.*, 235 [May, 1881; iii. 124.].—5. Dibromiodiacrylic and chlorbromiodiacrylic acids. With Rachel Lloyd. 1882; xvii. 94 [iv. 92.].—6. Orthoiodbenzylbromide and its derivatives. With F. C. Robinson. *Ibid.*, 103 [iv. 101.].—7. Chlortribrompropionic acid. With H. C. Weber. *Ibid.*, 106 [iv. 109.].—8. On certain tetrasubstituted propionic acids. With H. B. Hill. *Ibid.*, 140 [iv. 263.].—9. On certain substituted acrylic and propionic acids. With F. C. Robinson. 1883; xviii. 41 [v. 251.].—10. Decomposition of chlortribrompropionic acid with alkaline hydrates. *Ibid.*, 45 [v. 255.].—11. The products of the dry distillation of wood at low temperatures. *Ibid.*, 47 [v. 256.].—12. On β -bromotetrachlorpropionic acid. 1884; xix. 279 [vi. 155.].—13. On α - and β -chloridibromacrylic acids. With Rachel Lloyd. *Ibid.*, 281 [vi. 157.].—14. On β -dibromdichlorpropionic and β -bromdichloracrylic acids. With H. H. Nicholson. *Ibid.*, 289 [vi. 165.].—15. On orthoiodtoluolsulphonic acid. With G. H. Palmer. *Ibid.*, 293 [vi. 170.].

These articles belong to the series: *Contributions from the chemical laboratory of Harvard College*. The figures in brackets after nos. 3–15 refer to the *American Chemical Journal*, in which those articles also appeared.

Edward Laurens Mark.

Instructor in Zoölogy, 1877–1883; Assistant Professor of Zoölogy, 1883—.

1. Maturation, fecundation, and segmentation of *Limax campestris*, Binney. *Bull. Mus. Comp. Zool.*, Oct. 1881; vi. 12, pp. 173–625, plates 5.
2. Selections from embryological monographs. Compiled by Alexander Agassiz, Walter Faxon, and E. L. Mark. 3. Polyps. *Mem. Mus. Comp. Zool.*, 1884; ix. 3, pp. 38–52, plates 11–13.
3. Notes on section cutting. *Am. Naturalist*, June, 1885; xix. 628–631.

The following papers were prepared by students under Professor Mark's direction.

Contributions from the Zoölogical Laboratory of the Museum of Comparative Zoölogy at Harvard College:—

- I. On the development of the posterior fissure of the spinal cord, and the reduction of the central canal, in the pig. By William Barnes. (Presented 13 June, 1883, by Alexander Agassiz.) *Proc. Am. Acad.*, 1884; xix. 97–110, plates 3.
- II. The relation of the external meatus, tympanum, and Eustachian tube to the first visceral cleft. By Albert H. Tuttle. (Presented 13 June, 1883, by Alexander Agassiz.) *Ibid.*, pp. 111–132, plates 2.
- III. On the development of *Oecanthus niveus* and its parasite, *Teleas*. By Howard Ayers. (First Walker prize essay of the Society

for 1883.) *Mem. Bost. Soc. of Nat. History*, Jan. 1884; iii. 8, pp. 225-281, plates 18-25, and 41 figs. in the text.

- V.* The development of Phryganids, with a preliminary note on the development of *Blatta Germanica*.† By William Patten. *Quarterly Journ. Microscop. Science*, Oct. 1884; xxiv. 549-602, plates xxxvi. A, xxxvi. B, xxxvi. C.

- VI. On the anatomy and histology of *Aulophorus vagus*. By Jacob Reighard. (Communicated 11 June, 1884, by Alexander Agassiz.) *Proc. Am. Acad.*, 1885; xx. 88-106, plates 3.

* The fourth article in this series was by C. O. Whitman and will be found under his name.

† The portion of the paper relating to *Blatta* was done under Prof. R. Leuckart, Leipzig, Germany.

Arthur Richmond Marsh.

Lecturer on Ancient Art, 1884-1885.

1. Ancient crude-brick construction and its influence on the Doric style. *Am. Journ. of Archaeol.*, 1885; i. 46.
2. Perrot and Chipiez's "History of art in Phoenicia and its dependencies." A review. *Ibid.*, p. 190.

Amos Lawrence Mason.

Clinical Instructor in Auscultation and Percussion, 1880-1884.

- 1-4. In the *Boston Medical and Surgical Journal*, of which Dr. Mason was one of the editors for 1876-1881: 1. The treatment of typhoid fever. cvi. 178. — 2. Poisoning by illuminating gas. cviii. 196. — 3. Cerebrospinal meningitis. cx. 121. — 4. Typhoid fever at the Boston City Hospital in 1884-85; with remarks on the use of antipyrine; 442 cases. cxi. 535.
5. Two hundred cases of pleurisy at the Boston City Hospital, considered in relation to tapping the chest. 120 operations. *Medical and Surg. Reports of the City Hospital of the City of Boston*. 3d series. Boston. 1882. p. 295. Dr. Mason was also one of the editors of this publication.

Nos. 1-4 were papers read before the Boston Society for Medical Improvement.

William Harlow Melville.

Assistant in Mineralogy, 1877-1882.

- 1-4. Contributions from the chemical laboratory of Harvard College. *Proc. Am. Acad.*, 1882; xvii.: 1. Crystalline form of cryolite, p. 55. — 2. White tourmaline, p. 57. — 3. Iodide of arsenic, pp. 59-61, plate 1. — 4. On the crystalline form of α -dichloroacrylic acid, p. 131.

Charles Sedgwick Minot.

Lecturer on Embryology, 1880-1883; *Instructor in Oral Pathology and Surgery*, 1880-1883; *Instructor in Histology and Embryology*, 1883—.

1. Studies on the tongue of reptiles and birds. *Anniversary memoirs of the Boston Natural History Society*. Boston. 1880. 4°.

2. Histology of the locust (*Caloptenus*) and the locust (*Anabrus*). *Second report U. S. Entomolog. Commission*. Washington, D.C. 1880. Chap. x. pp. 183-222, plates ii.-viii.
3. Some recent investigations of the histology of the scala media cochleæ. *Am. Journ. of Otolology*. 1881.
4. Comparative morphology of the ear. *Ibid*. 1881, 1882.
5. Is man the highest animal? *Proc. Am. Assoc. Adv. Sci.*, 1881; xxx. 240.
6. Review of Balfour's "Embryology." *Boston Med. and Surg. Journ.*, 10 Nov. 1881; cv. 450.
7. A grave defect in our medical education. *Ibid.*, 15 Dec. 1881; cv. 565.
8. Huxley's writings. *International Review*, Dec. 1881.
9. Charles Robert Darwin. *Boston Med. and Surg. Journ.*, 27 April, 1882; cvi. 402.
10. Report on general physiology. *Ibid.*, 11 May, 1882; cvi. 440.
11. Theorie der Genoblasten. *Biolog. Centralbl.*, ii. 365.
12. Criticism of Professor Hubrecht's hypothesis of development by primogeniture. *Science*, 16 March, 1883; i. 165.
13. Review of Heitzmann's "Microscopical Morphology." *Ibid.*, 29 June, 1883; i. 603.
14. The fetal envelopes. *Boston Med. and Surg. Journ.*, 26 April, 1883; cviii. 409.
15. Report on general physiology. *Ibid.*, 10 May, 1883; cviii. 440.
16. Retrogressive history of the fœtus. *Ibid.*, 31 May, 1883; cviii. 529.
17. National traits of science. *Science*, 5 Oct. 1883; ii. 455.
18. The laboratory in modern science. *Ibid.*, 15 Feb. 1884; iii. 172.
19. The organization of an international scientific association. *Ibid.*, 25 July, 1884; iv. 80.
20. Psychological research in America. *Ibid.*, 17 Oct. 1884; iv. 369.
21. Death and individuality. *Ibid.*, 24 Oct. 1884; iv. 398.
22. Researches on growth and death. *Proc. Soc. Arts*. (Mass. Inst. of Technol.) Boston. 1884; p. 50.
23. Zur Kenntniss der Samenblasen beim Meer-schweinchen. *Arch. f. mikroskop. Anat.*, xxiv. 211.
24. The chapter on Worms in the *Standard Natural History*. Ed. by J. S. Kingsley. Vol. i. Boston. 1885. p. 185.
25. Report on the anatomy of *Aletia Xylina*. With Edw. Burgess. *Fourth report U. S. Entomolog. Commission*, p. 45.
26. The formative force of organisms. *Science*, 3 July, 1885; vi. 4-6.
27. Report on histology and embryology. *Boston Med. and Surg. Journ.*, 9 July, 1885; cxiii. 30.
28. A new endowment for research. *Nature*, 3 July, 1885; also *Science*, 21 Aug. 1885; vi. 144.

29. Some histological methods. *Am. Naturalist*, 1885; xix. 828, 916.
30. The early stages of human development. *N. Y. Med. Journ.*, xliii. 197, 396.
31. The following articles: — Age, Allantois, Amnion, Area, Bioplasson, Blastoderm, Blastospore, in *Wood's Reference Handbook of the Medical Sciences*, vol. i. New York. 1885.

Francis Minot.

Hersey Professor of the Theory and Practice of Physic, 1874—.

- 1-14. In the *Boston Medical and Surgical Journal*: 1. Cases of lead poisoning treated at the Massachusetts General Hospital. 10 March, 1881; civ. 221. — 2. Case of pyelephlebitis originating in inflammation of the appendix caeci. 8 Sept. 1881; cv. 231. — 3. Case of pyaemia of obscure origin. 17 Nov. 1881; cv. 485. — 4. Case of chorea, treated by arsenic. 6 April, 1882; cvi. 319. — 5. Cases of pulmonary consumption followed by recovery or arrest of the disease. 27 April, 1882; cvi. 409. — 6. Ventilation in the lying-in room. 23 Nov. 1882; cvii. 594. — 7. Obscure case of ascites and anasarca. 16 Aug. 1883; cix. 154. — 8. Paralysis of lower extremities from lead; rapid recovery under use of iodide of potassium. 16 Aug. 1883; cix. 155. — 9. The hygiene of the lying-in room. 11 Oct. 1883; cix. 343. — 10. Case of death from heart-clot, following etherisation. 13 Dec. 1883; cix. 560. — 11. Two cases of uterine polypus. 17 Jan. 1884; cx. 58. — 12. On the treatment of acute pneumonia. 14 Feb. 1884; cx. 169. — 13. Anuria from compression of the ureters by cancerous disease. 6 March, 1884; cx. 227. — 14. Cancer of the body of the uterus, involving the rectum. 2 Oct. 1884; cxi. 323.

Charles Herbert Moore.

Instructor in Drawing and the Principles of Design, 1871—.

1. Set of five mezzo-tinted etchings. Cambridge. 1880. 4°.
2. Fac-similes of examples in delineation selected from the masters for the use of students in drawing. Cambridge. 1882. 4°.
3. Examples for elementary practice in delineation for the use of schools and isolated beginners. Boston. 1884. 4°.
4. Various newspaper and magazine articles.

Bennett Hubbard Nash.

Assistant Professor of Italian and Spanish, 1871-1881; *Professor of Italian and Spanish*, 1881—.

1. A memoir of the late George P. Marsh. With Francis Philip Nash. *Proc. Am. Acad.*, 1883; xviii. 447.

Charles Eliot Norton.

Professor of the History of Art, 1875—.

1. The Greek play at Harvard. *Atlantic Monthly*, July, 1881; xlviii. 106.
2. Address at the celebration of the two hundredth anniversary of the building of the Old Meeting-House at Hingham, on the eighth of August, 1881. Cambridge. 1882. 8° pp. 36.
3. Remarks on Mr. Longfellow's studies and translations of Dante. *First annual report of the Dante Society*. Cambridge. 1882. pp. 17-25.
4. The correspondence of Thomas Carlyle and Ralph Waldo Emerson, 1834-1872. [Edited, with notes, by C. E. Norton.] 2 vols. Boston. 1883. 12°.
5. Speech at the three hundredth anniversary of Emmanuel College, Cambridge, England, 18 June, 1884. *Commemoration of the Three Hundredth Anniversary of the Foundation*, 1884. 8°.
6. A visit to Sardis. *Harper's Monthly Mag.*, April, 1884; lxviii. 672.
7. The first American classical archaeologist [John Izard Middleton]. *Am. Journ. of Archaeol.*, Jan. 1885; i. 3-9.
8. Additional notes on the Divine Comedy by Henry Wadsworth Longfellow. [Edited by C. E. Norton.] *Fourth annual report of the Dante Society*. Cambridge. 1885. pp. 15-31.
9. Edited first-sixth annual reports of the Archaeological Institute of America, 1879-1884. Cambridge. 1880-85. 8°.

Joseph Pearson Oliver.

Clinical Assistant in Diseases of Children, 1875-1885.

1. A clinical lecture on gastroduodenal catarrh in young children. *N. Y. Med. Journ.*, 1883; xxxvii. 57-59.

Walter Joseph Otis.

Prosecutor in Surgical Anatomy, 1880-1882; *Assistant in Anatomy*, 1882-1884; *Assistant in Operative Surgery*, 1884—.

1. A new dilator for the operation of tracheotomy. *Boston Med. and Surg. Journ.*, 26 April, 1883; cviii. 396.
2. A case of cystitis with sloughing of the mucous membrane of the bladder following confinement. *Ibid.*, 17 May, 1883; cviii. 458.
3. Hemorrhage following tonsillotomy. *Ibid.*, 6 Sept. 1883; cix. 227.
4. Demonstration of the position and length of the sigmoid flexure of the colon; and Houston's valves of the rectum. *Ibid.*, 18 June, 1885; cxii. 606.

John Knowles Paine.*Professor of Music, 1875—.*

1. Oedipus tyrannus of Sophocles. Music for male chorus and orchestra. Opus 35. Boston. 1881. 1. 8°.
2. The Nativity. Words from Milton. For chorus, solo voices and orchestra. Boston.
3. The realm of fancy. Words by Keats. For chorus, solo voices and orchestra. Boston.
4. Phoebus, arise. Words by Drummond. For male chorus and orchestra. Boston. 1882. 1. 8°.
5. Commencement hymn. Words by J. B. Greenough. For male voices and orchestra. Boston.
6. Romance. Boston. 1884.
- 7-10. Four pieces for piano. Boston. 1884.
- 11-13. Three songs. Boston. 1884.

George Herbert Palmer.*Assistant Professor of Philosophy, 1873-1883;
Professor of Philosophy, 1883—.*

1. The new regulations. *Harvard Register*, Dec. 1880; i. 235.
2. The Odyssey of Homer. Books i.-xii. The text and an English version in rhythmic prose. Boston, etc. 1884. 8°.

Charles Pomeroy Parker.*Instructor in Greek and Latin, 1882-1883;
Tutor in Greek and Latin, 1883—.*

1. Handbook of Latin writing. With H. Preble. Boston. 1884.

Andrew Preston Peabody.*Preacher to the University, and Plummer Professor of Christian Morals, 1860-1881; Emeritus, 1881—.*

- 1-7. In the *Harvard Register*: 1. Mark Hopkins. Sept. 1880; i. 182.—2. The study of the Greek and Latin languages. Jan. 1881; iii. 7.—3. Henry N. Hudson. His "Harvard edition" of Shakespeare. *Ibid.*, 43.—4. Henry Dunster, first president of Harvard College. Feb. 1881; iii. 65-68.—5. Charles Chauncy, second president of Harvard College. March, 1881; iii. 121-126.—6. George Barrell Emerson. May, 1881; iii. 259-261.—7. Notice of W. W. Newell's translation of Oedipus tyrannus. July, 1881; iii. 432.
- 7^a. The Unitarians. *Memorial History of Boston*, vol. iii. Boston. 1880. pp. 467-482.
8. Christo et ecclesiae. A valedictory sermon delivered before the senior class of Harvard College, 19 June, 1881. Cambridge. 1881. 8°. pp. 11.

Also in: Valedictory sermon and hymn, class-day orations and poem. Class of 1881, and in no. 26.

9. Philosophy IV. Ethics. [Notes of lectures on Cicero's De officiis, given in 1881. Compiled by C. W. Birtwell. Camb. 1881.] 8°.

10. The upright man. A sermon preached in the chapel of Harvard University on the Sunday after the decease of John G. Palfrey, D.D., LL.D. *Unitarian Review*, July, 1881; xvi. 70-77.
11. Consciousness and personality. *Princeton Review*, Nov. 1881.
12. Hospitality. Baccalaureate sermon for the class of 1883. *Class of 1883, Baccalaureate Sermon, Class-Day Oration, etc.* Cambridge. 1883.
13. Translation of Cicero's "De officiis," with introduction and notes. Boston. 1883. 16°. pp. xxiv., 254.
14. Sermon at Portsmouth, N. H., fifty years after the author's ordination as pastor of the South Church. Boston. 1883.
15. Negative preaching. A lecture before the Harvard Divinity School in 1882. *Unitarian Review*, June, 1883.
16. Review of Harris's "Philosophical basis of theism." *Christian Register*, 25 Oct. 1883.
17. Review of Hazard's "Man a creative first cause." *Ibid.*, 8 Nov. 1883.
18. Wish and will. *Ibid.*, 27 Dec. 1883.
19. Translation of Cicero's "De senectute," with introduction and notes." Boston. 1884. 16°. pp. xxxii., 67.
20. Translation of Cicero's "De amicitia," and "Scipio's dream," with introduction and notes. Boston. 1884. 16°. pp. xix., 91.
21. Address at the Commemorative services for Ezra Abbot, 1884. *Ezra Abbott. Published for the alumni of the Harvard Divinity School.* Cambridge. 1884. 8°.
22. On the study of Greek. *Atlantic Monthly*, Jan. 1884.
23. The divine beneficence of penalty. Russell lecture at Tuft's College. 23 Sept. 1883. *Unitarian Review*, Feb. 1884.
24. Prolegomena to Tischendorf's New Testament. *Unitarian Review*, Aug. 1884.
25. Plutarch and his writings. *Andover Review*, Nov. 1884; ii. 466-478.
26. Translation of Plutarch on the delay of the divine justice, with introduction and notes. Boston. 1885. 16°. pp. xxx., 78.
27. Baccalaureate sermons 1861-1883. Boston. 1885. 8°. pp. 252.
28. Consulting with one's self. Baccalaureate sermon to the class of 1885. 8°. pp. 10.
Also in: Class of 1885. Baccalaureate sermon, class-day oration, etc. Cambridge. 1885. 8°.
29. Memorial of Hon. Stephen Salisbury. *Proc. Am. Antiq. Society*, 21 Oct. 1884; iii. 227-246.
30. Autumn, a sermon preached at Worcester in 1884. Worcester. 1885.
31. A sermon in commemoration of Rev. Rufus Ellis, D.D. Boston. 1885.
32. Memoir of Cornelius Conway Felton. *Memorial biographies of the New Eng. Hist. and Geneal. Soc.*, vol. iv. Boston. 1885. 8°. pp. 444-453.
33. The fallacies of history. Read before the American Antiquarian Society in 1885. Worcester. 1885.

34. Report [of a committee (A. P. Peabody, Phillips Brooks, and John Lowell) on the petition presented by Undergraduates that attendance at morning prayers be made voluntary for all students over twenty-one years of age. Presented March 8, 1885.] pp. 6.
35. The apostle Paul. *Unitarian Review*, April, 1885.
36. Phillips Exeter Academy. *New Englander*, May, 1885.
37. Memoir of Edward Jarvis, M.D. *New Eng. Hist. and Gen. Reg.*, July, 1885. Memoir of the same. *Proc. Am. Acad.*, 1885; xx. 519-522.
38. Memoir of Rear Admiral Preble. *Proc. Mass. Hist. Soc.*, Oct. 1885.

Francis Greenwood Peabody.

Lecturer on Ethics and Homiletics, 1880-1881;
Parkman Professor of Theology, 1881—
Acting Dean of the Divinity Faculty, 1885—.

1. The history of the psychology of religion, i., ii. *Unitarian Review*, Aug., Sept. 1880.
2. The autumn and the soul. A sermon. *Springfield Republican*, 25 Nov. 1880.
3. The preacher's opportunity. An introductory discourse in Harvard Divinity School. *Unitarian Review*, Dec. 1880.
4. Reports of the Committee to visit the Divinity School, 1880, 1881. pp. 12, 4.
5. The end of these things. Baccalaureate sermon to the class of 1882. Cambridge. 1882. Also in the Class-day pamphlet for 1882.
6. A broad place. Sermon at the dedication of the Channing Church, Newton, Mass. Boston. 1882. Also *Christian Register*, 15 June, 1882.
7. Civil service reform in the New York post office. For the Cambridge Civil Service Reform Association. *Boston Herald*, 1882.
8. William Newell. A memorial address. *Discourses and poems of William Newell. A memorial volume.* Boston. 1882. 12°. pp. 30-34.
9. Liberal Christianity and the spirit of worship. An essay at the National conference of Unitarian and other Christian churches. *Unitarian Review*, Nov. 1882.
10. Spiritual frontage. Sermon at the ordination of A. A. Brooks, Greenfield, Mass. Printed by the society. 1883.
11. The study. A paper on the minister's home. *Unity*, 1883.
12. The method of the psychology of religion, i., ii. *Unitarian Review*, March, April, 1883, pp. 244-257, 322-333.
13. The fixed heart. A sermon. *Every other Saturday*. 1884.
14. Review of Janet's "Theory of morals." *Science*, 21 March, 1884; iii. 360.
15. The office of proof in the knowledge of God. *Andover Review*, July, 1884; ii. 1-17.
16. The ministry. From addresses of 1884. *Christian Register*, 21 Feb. 1884; 22 Jan. 1885. Also *Truth Seeker* (London), May, 1884. Also *Valparaiso Record*, 27 Aug. 1885.

17. Review of Martineau's "Types of ethical theory." *Science*, 14 Aug. 1885; vi. 136.
18. Oliver Stearns. *Christian Register*, 6 Aug. 1885.
19. Report as acting Dean of the Divinity faculty. *Annual report of the President*, 1884-1885.

Benjamin Peirce.

Perkins Professor of Astronomy and Mathematics, 1842-1880.

* * The following posthumous works were published within the period included by this list.

1. Ideality in the physical sciences. [Edited by J. M. Peirce.] Boston. 1881. 8°.
2. Linear associative algebra. New edition, with addenda and notes, by C. S. Peirce. Extracted from the *Am. Journ. of Mathematics*, 1881; iv. New York. 1882. 4°. pp. (6) 133.

Benjamin Peirce. A memorial collection, by Moses King. Cambridge. 1881. sq. 8°. pp. 64. *Port.*

Containing, Biographical sketch by Thomas Hill, D.D., with additional notes and various commemorative addresses and other publications.

Benjamin Osgood Peirce.

Instructor in Mathematics, 1881-1884; *Assistant Professor of Mathematics and Physics*, 1884—.

1. A short table of integrals to accompany By-erly's "Integral calculus." 8°. n. p. n. d. pp. 16.
2. On the sensitiveness of the eye to slight differences of color. *Am. Journ. of Science*, Oct. 1883; 3d series, xxvi. 299-302.

James Mills Peirce.

University Professor of Mathematics, 1869-1885; *Perkins Professor of Astronomy and Mathematics*, 1885—.

1. Edited: Ideality in the physical sciences. By Benjamin Peirce. Boston. 1881. 8°.

Thomas Sergeant Perry.

Instructor in English, 1877-1881; *University Lecturer upon English Literature*, 1881-1882.

1. Gray, Collins, and Beattie. *Atlantic Monthly*, Dec. 1880; xlvii. 810.
2. M. Zola as a critic. *International Review*, Feb. 1881; x. 144.
3. The life and letters of Francis Lieber. Edited by T. S. Perry. Boston. 1882. 8°. pp. iv., 439. *Port.*
4. English literature in the eighteenth century. New York. 1883. 12°.

Translated into French under the title: La Littérature Anglaise au dix-huitième siècle. Traduit et adapté de l'anglais par L. Lemaquis, Professeur au Lycée de Bar-le-Duc. Paris. 1885. 12°.

Edward Charles Pickering.

Director of the Observatory and Phillips Professor of Astronomy, 1876—. *Professor of Geodesy, 1876—.*

1. New planetary nebulae. *Am. Journ. of Science*, Oct. 1880; cxx. 303. Also *The Observatory*, March, 1881; iv. 81.
2. Variable stars of short period. *Proc. Am. Acad.*, Feb. 1881; xvi. 257. Also *The Observatory*, Aug.—Oct. 1881; iv. 225, 264, 284.
3. Observations of comet III. 1869. *Astronomische Nachrichten*, xcix. 95.
4. Observation of the solar eclipse of Dec. 30, 1880. *Ibid.*, xcix. 107.
5. The companion of Sirius. *Ibid.*, xcix. 219.
6. Photometric magnitude of Jupiter's satellite III. *The Observatory*, April, 1881; iv. 113.
7. Large telescopes. *Proc. Am. Acad.*, April, 1881; xvi. 364. Also *Nature*, Aug. 1881; xxiv. 389.
8. Photometric measurements of the variable stars β Persei and DM. $81^{\circ} 25'$, made at the Harvard College Observatory. [E. C. Pickering, Arthur Searle, and O. C. Wendell, observers.] *Proc. Am. Acad.*, April, 1881; xvi. 370.
9. Objects remarkable for their colors or spectra. *Astronomische Nachrichten*, xcix. 375.
10. New variable star in Puppis. *Ibid.*, c. 13.
11. Comet 1881, III. *Science*, July, 1881; ii. 329.
12. Report on the progress of the zone observations. *Vierteljahrsschrift d. Astron. Gesellschaft*, 1881; xvi. 317.
13. Reply to inquiries regarding time balls. *Professional Papers of the Signal Service*, no. 5, p. 24.
14. Stars with peculiar spectra, discovered at the Astronomical Observatory of Harvard College. *Astronomische Nachrichten*, ci. 73.
15. Order of brightness of stars. *English Mechanic and World of Science*, Nov. 1881; xxxiv. 278.
16. Remarkable star spectrum; new planetary nebula. *Science*, Dec. 1881; ii. 581. Also *Copernicus*, Dec. 1881; i. 242.
17. A plan for securing observations of the variable stars. Cambridge. 1882. 8°.
18. Statement of work done at the Harvard College Observatory during the years 1877–82. Cambridge. 1882.
19. The Pleiades. *Astronomical Register*, Feb. 1882; xx. 40.
20. Variable stars. *English Mechanic and World of Science*, Feb. 1882; xxxiv. 542.
21. Photometric observations of planets and of Jupiter's satellite III, made at the Harvard College Observatory. *Astronomische Nachrichten*, cii. 151.
22. Photometric observations of the satellites of Mars, 1881–82. [E. C. Pickering and O. C. Wendell, observers.] *Ibid.*, cii. 193.
23. The meridian photometer. *Monthly Notices of the R. Astr. Society*, June, 1882; xlii. 365.
24. Photometric comparisons of lunar objects. *Selenographical Journal*, July, Aug. 1882; v. 53, 57.
25. Erratum in observations of comet Wells, 1882. *Astronomische Nachrichten*, cii. 223.
26. Photometric measurements of Sawyer's variable (DM. $+1^{\circ} 3408$), and its comparison stars. *Ibid.*, ciii. 61.
27. New planetary nebulae. *Ibid.*, ciii. 95, 165.
28. Small planetary nebulae, discovered at the Harvard College Observatory. *The Observatory*, Oct. 1882; v. 294. Also *The Sidereal Messenger*, Oct. 1882; i. 139.
29. Address at the June meeting of the Royal Astronomical Society. *The Observatory*, vi. 199. Also *Astronomical Register*, xxi. 150.
30. Address at the second annual general meeting of the Liverpool Astronomical Society. *Abstract of Proceedings*, 2. Also *Astronomical Register*, xxi. 278.
31. The wedge photometer. *Proc. Am. Acad.*, 1882; xvii. 231.
32. Circulars relative to the collection and distribution of astronomical intelligence. Cambridge. 1883. 8° pp. 7.
33. First circular of instructions for observers of variable stars, acting in cooperation with the Harvard College Observatory. [Dated Cambridge, 27 Jan. 1883.] 8° pp. 4.
34. Astronomical photography. [Circular, dated Cambridge, 21 Feb. 1883.] 4° pp. 2.
35. Observations of the transit of Venus, 5 and 6 Dec. 1882, made at the Harvard College Observatory. *Ibid.*, 1883; xviii. 15.
36. Mountain observatories. *Appalachia*, iii. 99. Also *The Observatory*, vi. 287.
37. New planetary nebulae. *Astronomische Nachrichten*, cv. 335.
38. Erratum in the position of a variable star. *Ibid.*, cv. 351.
39. Researches upon the photography of planetary and stellar spectra. By the late Henry Draper. Results of measurements by E. C. Pickering. *Proc. Am. Acad.*, 1884; xix. 231.
40. Sir William Herschel's observations of variable stars. *Ibid.*, xix. 269. Also *The Observatory*, vii. 256.
41. Recent observations of variable stars. *Proc. Am. Acad.*, 1884; xix. 296.
42. Photometric observations of Neptune at the Harvard College Observatory. *The Observatory*, vii. 134.
43. Light of comparison stars for Vesta. *Am. Journ. of Science*, cxxviii. 17.
44. Early experiments in telegraphing sound. *Proc. Am. Acad.*, 1885; xx. 262–267.
45. Observations of variable stars in 1884. *Ibid.*, 1885; xx. 393.
46. A photographic study of the nebula of Orion. *Ibid.*, 1885; xx. 407.
47. Photometric observations of Neptune at the Harvard College Observatory. *The Observatory*, viii. 111.
48. Photometric observations of Ceres (1), Pallas (2), and Vesta (4) at the Harvard College Observatory. *Ibid.*, viii. 238.

49. Photometric measurements at the Harvard College Observatory of the faintest stars in the charts constructed by Palisa. *Sidereal Messenger*, iv. 133.

50. Possibility of errors in scientific research due to thought transference. *Am. Soc. Psychical Research*, i. 235.

51. First—Third report of the committee on standards of stellar magnitude. Edward C. Pickering, chairman. *Proc. Am. Assoc. for the advancement of Science*, 1881, p. 1; 1883, p. 1; 1885, p. 1.

52. Thirty-sixth—Fortieth annual report of the Director of the Astronomical Observatory. Presented to the visiting committee, 1880—1885. Cambridge. 1882—1886. 8°.

1881, pp. 16; 1882, pp. 15; 1883, pp. 17; 1884, pp. 12; 1885, pp. 13. Each report includes a list of the scientific articles published by the officers of the Observatory during the year. These reports are also included in the *annual reports of the President*.

53. Edited *Annals of the Astronomical Observatory of Harvard College*. Vol. xiii. Pt. 1; vol. xiv. Cambridge. 1882—85. 4°.

Contents:—xiii. (Incomplete.) Part I. Micrometric measurements made with the equatorial telescope of fifteen inches aperture during the years 1866—1881, under the direction of Joseph Winlock and E. C. Pickering, successive directors of the Observatory. 1882. pp. vi., 204.

xiv. Observations with the meridian photometer during the years 1879—82. By E. C. Pickering, aided by Arthur Searle and O. C. Wendell. (Published in 2 parts.) 1884—85. pp. viii., 512, plates 3.

Charles Burnham Porter.

Instructor in Surgery, 1879—1882; *Assistant Professor in Surgery*, 1882—.

- 1—14. In the *Boston Medical and Surgical Journal*: 1. Unusual urethral cases. 1881; civ. 370. — 2. Intestinal obstruction. 1881; cv. 229. — 3. Cases of popliteal aneurism. 1882; cvi. 361. — 4. Disease of the mammary areola preceeding cancer of the mammary gland. Paget's disease. *Ibid.*, p. 412. — 5. Amputation at the hip. Knee-joint and section of the femur shown. *Ibid.*, p. 421. — 6. Remarks on tracheotomy (on a paper by Dr. M. H. Richardson). 1882; cvii. 561, 563. — 7. Orbital cellulitis. 1883; cviii. 57. — 8. Case of plastic operation for burn of the fore-arm and hand. *Ibid.*, p. 469. — 9. Old stricture, multiple abscesses, perineal section, septicaemia, death. 1883; cix. 609. — 10. Pilo-nidal sinus. 1884; cx. 398. — 11. Case of diptheretic perineal wound, chronic cystitis, bilateral incision. *Ibid.*, p. 399. — 12. Removal of fragments of catheter from bladder (case reported). *Ibid.*, p. 399. — 13. Excision of a portion of intestine including part of the ileo-caecal valve for the cure of faecal fistula in the right groin; recovery. *Ibid.*, 457. — 14. Cases of conservative surgery. 1885; cxii. 224.

Abner Post.

Clinical Instructor in Syphilis, 1882—.

- 1—2. In the *Boston Medical and Surgical Journal*, of which Dr. Post was assistant editor during the period covered by this list: 1. Ricketts and congenital syphilis. 4 Oct. 1883; cix. 325. — 2. A case of cerebro-spinal syphilis. 10 Jan. 1884; cx. 28.

Henry Preble.

Tutor in Greek and Latin, 1881—.

1. Handbook of Latin writing. With C. P. Parker. Boston. 1884.

Frederick Ward Putnam.

Curator of the Peabody Museum of American Archaeology and Ethnology, 1874—.

- 1—8. In the *Proceedings of the Boston Society of Natural History*, 1880—1882; vol. xxi.
 1. Presentation of specimens of Chologaster Agassizii Put., from Mammoth Cave, Kentucky. Sept. 1881; p. 82. — 2. Notice of a vase in the shape of a human head from a burial mound on the St. Francis river, Ark. p. 90. — 3. Remarks on a small carved bone found in a well at Scarborough, Me., in 1871. p. 107. — 4. Remarks on the explorations of Dr. Palmer of the caves at Coahuila, Mexico. p. 118. — 5. Remarks on a visit to Mammoth Cave, Jan. 1882; p. 233. — 6. Account of the explorations in the ancient cemetery at Madisonville, Ohio; p. 216. — 7. Remarks on palaeolithic implements; p. 122. — 8. Notes on some stone implements from Marshfield, Mass.; also from Sag Harbor, N. Y. Feb. 1882; p. 405.
9. Pueblo pottery. *Am. Art Review*, Feb. 1881; p. 151, *illustr.*
10. American pottery. *Ibid.*, Feb. 1881.
11. Archaeological explorations at Madisonville, Ohio. *Harvard University Bulletin*, June, 1881; ii. no. 19, p. 217.
12. Remarks on the palaeolithic implements of the valley of the Delaware. Meeting of the Boston Soc. Nat. Hist., 19 Jan. 1881. Reprinted from the proceedings of the Society, vol. xxi., for the Peabody Museum of American Archaeology and Ethnology. Cambridge. 1881.
13. Ancient American pottery. *Supplement to Scientific American*, 1 Jan. 1881, *illustr.*
14. Review of Evans' "Bronze age in Great Britain and Ireland." *Independent* (New York), 1 Dec. 1881; p. 9.
15. Were ancient copper implements hammered or moulded into shape? *Kansas City Review*, Dec. 1881.
16. Notes on the copper objects from North and South America, contained in the collections of the Peabody Museum. *Fifteenth report of the Peabody Mus.*, 1882; pp. 83—148, *illustr.*
17. Sketch of Lewis H. Morgan. *Proc. Am. Acad.*, 1882; xvii. 429.
18. Report of a paper read before the Boston Society of Natural History on the use of copper, bronze, and silver, in North and South America. *Boston Evening Transcript*, 20 Jan. 1882.
19. The Maine shell heaps. Report of address before the Maine Historical Society, 23 Dec. 1882. *Portland Advertiser*, 23 Dec. 1882.
20. The Damariscotta shell heaps. *Ibid.*, 7 Feb. 1883.

- 21-29. In *Science*, 1883, vol. i.: 21. Notice of sixty-eight Indian portraits, originals of plates in McKenney and Hall's "Indian tribes of North America," presented to Peabody Museum. Feb.; p. 83. — 22. Archaeological frauds. 2 March; p. 99. — 23. An Indian burial mound. 16 March; p. 168. — 24. Stone-graves of the Cumberland valley. 13 April; p. 292. — 25. Shell heaps on the coast of Maine. 20 April; p. 319. — 26. Altar mounds in Anderson township, Ohio. 27 April; p. 348. — 27. The ancient cemetery at Madisonville, Ohio. 4 May; p. 373. — 28. Iron in the Ohio mounds. 18 May; p. 434. — 29. Mound explorations in the Little Miami valley. 1 June; p. 496.

30. Notes on copper implements from Mexico. *Proc. Am. Antiq. Soc.*, 1883; new series, ii. 235-246, *illustr.*

This is a continuation of the paper on copper implements in the 15th report of the Museum (no. 16 above).

31. Iron from the Ohio mounds; a review of the statements and misconceptions of two writers of over sixty years ago. *Ibid.*, April, 1883; new series, ii. 349-363, *illustr.*
32. Abstract of an account of recent archaeological excursions in Wisconsin and Ohio. Given at the meeting of the American Antiquarian Society, Oct. 22, 1883. *Ibid.*, Oct. 1883; new series, iii.
33. Seventeenth—nineteenth annual reports of Mass. Commissioners on Inland Fisheries for 1882 to 1885. (Conjointly with other commissioners.) Boston. 1883-1885. 8°. (Mass. Pub. Docs., no. 25, 1882-1884.)
34. A new stand for skulls, made by Edward E. Chick, Assistant in the Peabody Museum at Cambridge. *Proc. Am. Assoc. for the advancement of Science*, August, 1883; xxxii. 392.
35. Abnormal human skulls from stone-graves in Tennessee. *Ibid.*, August, 1883; xxxii.
36. Note on human footprints found in tufa, near the shore of Lake Managua, Nicaragua. *Proc. Am. Antiq. Soc.*, 30 April, 1884; new series, iii. 92.
37. Note on a human under-jaw found in gravel at Trenton, N. J. *Ibid.*, 93.
38. The first notice of the Pine Grove, or Forest River shell heap. *Bull. Essex Inst.*, July-Sept. 1883; xv. 86-92.
39. Indian mounds on the Little Miami river, Ohio. *Proc. Acad. Natural Sciences* (Phila.), Jan.-April, 1884; i. 20, 21.
40. Remarks upon some chipped stone implements. *Bull. Essex Inst.*, 1884; xv. 137-142, *illustr.*
41. Remarks on curiosity. *Ibid.*, 1884; xvi. 154-156.
42. Edited the Proceedings of the American Association for the advancement of Science, vols. xxii.-xxxiii. 1880-1885.
43. Fourteenth—seventeenth annual reports of the trustees of the Peabody Museum of American Archaeology and Ethnology, presented to the President and Fellows of Harvard College, May, 1881, June, 1882, March, 1884 [consisting of the reports of the Treasurer

and of the Curator (F. W. Putnam), with special papers]. Vols. iii. nos. 1-4.

The eighteenth report, made in the spring of 1885, will be published with the nineteenth report in 1886.

James Jackson Putnam.

Clinical Instructor in Diseases of the Nervous System, 1875—.

1. A case of acute hemiplegic chorea; with autopsy and remarks. With Ralph M. Canfield. *Boston Med. and Surg. Journ.*, 4 Sept. 1884.
2. The medico-legal significance of hemianaesthesia after concussion-accidents. *Am. Journ. of Neurology and Psychiatry*, Nov. 1884.

John Phillips Reynolds.

Professor of Obstetrics, 1877—.

- 1-4. In the *Boston Medical and Surgical Journal*: 1. Safeguards in private obstetrics. 1881; cv. 389-391. — 2. The epidemic of typhoid fever at Nahant, Mass. With Dr. Dwight (condensed report). *Ibid.*, 467. — 3. Induction of premature labor; manual dilatation; fatal result to both mother and child. 1882; cvii. 363-365. — 4. An overdose of chloral. 1884; cx. 151.

William Lambert Richardson.

Instructor in Obstetrics, 1874-1882; *Assistant Professor of Obstetrics*, 1882—.

1. Manual dilatation of the os uteri as a means of inducing premature labor. *Trans. Am. Gynecol. Soc.*, 1880 [1881]; v. 351-358. Also separately.
2. Three successive deliveries in a case of narrowed pelvis. *New York Med. Journ.*, 1881; xxxiv. 285-287.
- 3-10. In the *Boston Medical and Surgical Journal*: 3. Deformed pelvis; induction of labor. 1881; civ. 245. — 4. Acute jaundice after labor. *Ibid.*, 246. — 5. Eclampsia, acute parenchymatous nephritis, manual dilatation, version. *Ibid.*, 247. — 6. Excessive thirst and polyuria occurring during pregnancy. *Ibid.*, 248. — 7. Case of acute Bright's disease. 1882; cvi. 302. — 8. Cases of pregnancy complicated with fibroid tumor of the uterus. 1884; cxi. 39-41. — 9. A case of abdominal tumor. 1885; cxii. 76-79. — 10. Diagnosis and treatment of posterior positions of the occiput. 1885; cxiii. 147-151.

John Ritchie, Jr.

Assistant in Observatory in charge of Distribution of Astronomical Information, 1883—.

1. Circular relative to the collection and distribution of astronomical intelligence. With S. C. Chandler, Jr. Cambridge. 1883. 8°. pp. 8.
2. On the telegraphic transmission of astronomical data. Part ii. The phrase code. Boston. 1883. 8°. pp. 16.

Part i. was published in August, 1881.

3. On the collection and distribution of astronomical intelligence. *Science Observer*, 18 April, 1883; pp. 34-37.
4. Editorial on the same subject. *Ibid.*, p. 740.
5. Systematic search for comets. Monthly reports for Sept.—Nov. 1882. *Ibid.*, pp. 42-44.
6. The comet of 1812. A paper before the Society of Arts at Boston, 27 Dec. 1883. Abstr. in *Proc. Soc. of Arts*, 1883, p. 38.
7. Wrote the larger part of the Report of judges on philosophical, mathematical, and electrical instruments at the Mass. Charitable Mechanics' Association fair, 1884. *Report of the exhibition*. Boston. 1884. pp. 127-140.
8. Ephemeris of comet 1883, Brooks-Swift. *Astronomische Nachrichten*, 1884; cv. 143.
9. Systematic search for comets (editorial). *Science Observer*, 22 May, 1884; p. 54.
10. Systematic search for comets. Monthly reports for Dec. 1882, Jan., Feb. 1883, and for the year ending Feb. 1883. *Ibid.*, 56-59.
11. Mr. Toppan's new process of bleaching. Lecture before the Boston Scientific Society, 27 Feb., and before the Essex Institute, at Salem, 24 March, 1884. *Ibid.*, Aug. 1884, pp. 65-67.
12. Date of discovery by Brooks of Pons' comet. *Astronomische Nachrichten*, 1885; cvii. 43.
13. Conchological check lists. *Random Notes*, Jan. 1884—May, 1885; vol. i., ii. (each month).
14. Check list of British fresh-water shells. *Ibid.*, Sept. 1885; ii. no. 9.
15. Edited and published the *Science Observer*, 18 April, 1883—March, 1885; nos. 41-47.
16. Edited and published the *Science Observer* circulars, 3 Feb. 1883—18 Sept. 1885; nos. 30-60. Cambridge. 8°.

Contents: 1883. 30. Discovery of Asteroid Palisa. 3 Feb.—31. Discovery of Comet Swift-Brooks. 24 Feb.—32. Orbit Comet Swift-Brooks. 28 Feb. (S. C. Chandler, Jr., O. C. Wendell.)—33. Ephemeris Comet Swift-Brooks. 6 March. (J. Ritchie, Jr.)—34. Orbit Comet Swift-Brooks. 19 March. (S. C. Chandler, Jr., O. C. Wendell.)—35. Discovery of D'Arrest's comet. 5 April.—36. Discovery of Asteroid Borrelli. 14 May.—37. Discovery of Asteroid Peters. 15 Aug.—38. Discovery of Comet Brooks. 5 Sept.—39. Orbit Comet Brooks. 11 Sept. (S. C. Chandler, O. C. Wendell.)—40. Orbits and observations Comet Brooks.—41. Identity of Comet Brooks and Comet 1812. 21 Sept. (S. C. Chandler, Jr.)—42. Discovery of Asteroid Palisa (235). 1 Dec.—1884.—43. Discovery of Comet Ross. 16 Jan.—44. Discovery of Asteroid Palisa (236). 23 April.—45. Sweeping ephemeris Comet (1858 III). 13 May. (L. Schulhof, Paris, France.)—46. Supposed discovery of Comet (1858 III). 25 June.—47. Discovery of Asteroid Palisa (237). 30 June.—48. Discovery and orbit of Comet Barnard. 30 July. (S. C. Chandler, Jr., O. C. Wendell.)—49. Discovery of Asteroid Luther (240). 14 Sept.—50. Discovery of Asteroid Wolf. 22 Sept.—51. Orbit Comet Wolf. 23 Sept. (S. C. Chandler, Jr., O. C. Wendell.)—52. Discovery of Asteroid Palisa (241). 26 Sept.—53. Discovery of Asteroid Palisa (242); elliptical orbit of Comet Wolf. 15 Oct. (S. C. Chandler, Jr., O. C. Wendell.)—54. Discovery of Asteroid Palisa (243). 16 Oct.—1885.—55. Discovery of Asteroid Borrelli (244); discovery of (?) Asteroid Pogson; discovery of Comet 1867 III (Tempel). 14 March.—56. Discovery of Asteroid Palisa (245); discovery and orbit of Comet Barnard. 14 July. (S. C. Chandler, Jr.)—57. Discovery of Tuttle's comet. 12 Aug.—58. Discovery of Comet Brooks; discovery of variable nebula in Andromeda; discovery of Asteroid Peters (249). 3 Sept.—59. Discovery of Asteroid Palisa (250); Orbit Comet Brooks. 8 Sept. (S. C. Chandler, Jr., O. C. Wendell.)

All the Special circulars (not the International) are reprinted in the next succeeding *Science Observer* as a matter of record.

17. *Science Observer* international circulars. 1 March, 1883—15 July, 1885; nos. 6-12.

These are published in Europe and contain orbits of comets computed in this country and telegraphed abroad; they are a foreign edition in German of some of the *Science Observer* special circulars.

Contents: 1883. 6. Orbit Comet Brooks. 1 March.—7. Orbit Comet Brooks. 15 Sept.—8. Identity of Comet Brooks and Comet of 1812. 21 Sept.—1884. 9. Orbit of Comet Barnard. 31 July.—10. Orbit of Comet Wolf. 23 Sept.—11. Elliptic orbit of Comet Wolf. 14 Oct.—1885. 12. Orbit of Comet Barnard, 15 July.

No. 7 was published in Vienna, the others in Berlin. The orbits were computed by S. C. Chandler, Jr.

John Robinson.

Assistant in the Arnold Arboretum, 1880-1881.

1. Flora of Essex county, Massachusetts. (Occasional publication of the Essex Institute.) Salem. 1880. pp. 200.
2. Ornamental trees for Massachusetts plantations. Read at the winter meeting of the State Board of Agriculture, Dec. 1880. [From the *Twenty-eighth annual report of the secretary of the State Board of Agriculture*.] Boston. 1881. 8° 23-43.
3. Our trees in winter. *Bull. Essex Inst.* (Salem), 1881; xii. 38-51.
4. Ornamental arboriculture. *Trans. Mass. Horticult. Soc.*, 1881; pp. 155-179.
5. Progress of botany in Essex county, Mass., during the last half century, especially as influenced by the Essex County Natural History Society and the Essex Institute. *Bull. Essex Inst.*, 1884; pp. 122-133.
6. Report of the committee on forest trees in Essex county. *Proc. Essex Agric. Soc.*, 1884.
7. The native woods of Essex county. Published with the *Seventeenth report of the Peabody Acad. of Sciences* (Salem), 1884.

William Augustus Rogers.

Assistant Professor of Astronomy, 1877—.

1. On a convenient method of expressing micro-metrically the relation between English and metric units of length on the same scale. *Proc. Am. Assoc. for advancement of Science*, Aug. 1881; xxx. 116.
2. On a method of reducing different catalogues of stars to a homogeneous system. *Ibid.*, xxxi. 11.
3. On the performance of a new form of level invented by Mr. John Clark of the U. S. Coast Survey. *Ibid.*, xxxi. 14.
4. Plane v. cylindrical surfaces. *Mechanics*, No. 31, p. 90.
5. A study of the problem of fine rulings with respect to the limits of naked eye visibility and microscopic resolution. *Am. Monthly Microscop. Journ.*, Sept. 1882; p. 165.
6. A comparison of the Harvard College Observatory catalogue of stars for 1875.0 with the fundamental systems of Auwers, Safford, Boss, and Newcomb. *Mem. Am. Acad.*, x. 389-429.

7. On the conditions of success in the construction of standards of length and in their subdivision into equal parts. Read before the American Society of Microscopists at the meeting held at Elmira, N. Y., Aug. 1882. *Mechanics*, Oct. 27, 1882 and later.
8. On a method of determining the index error of a meridian circle at any instant, depending upon the observed polar distance of Polaris. *Proc. Am. Acad.*, xviii. 284.
9. Studies in metrology. *Ibid.*, xviii. 287.
10. On the reduction of different star catalogues to a common system. *Ibid.*, xviii. 399. Also *Astronomische Nachrichten*, cvi. 257.
11. A study of the centimeter marked "A," prepared by the U. S. Bureau of Weights and Measures for the committee on micrometry. *Proc. Am. Soc. of Microscopists*, 1883; p. 184.
12. A critical study of the action of a diamond in ruling lines upon glass and metals. *Ibid.*, p. 149.
13. Note on probable errors. *Ibid.*
14. Vice-President's address, "Section A," On the German survey of the northern heavens. *Proc. Am. Assoc. for the advancement of Science*, 1883, p. 53.
15. Phases of denominational life. President's address at the Seventh Day Baptist general conference, 1883. *Seventh Day Baptist Quarterly*, Jan. 1884; p. 45.
16. A layman's view of the revised version of the New Testament. *Ibid.*, Jan. 1884, p. 102; April, 1884, p. 60.
17. Centennial history of the Seventh Day Baptist church at Waterford, Conn. Pamphlet.
18. On a new form of section cutter. *Proc. Am. Soc. of Microscopists*, 1884; p. 191.
19. Additional observations confirming the relation: metre des archives = imperial yard + 3.37027 inches. *Proc. Am. Assoc. for advancement of Science*, xxxiii. 117.
20. Catalogue of 1213 stars observed at the Astronomical Observatory of Harvard College, with the meridian circle, during the years 1870 to 1879, and prepared for publication under the direction of Joseph Winlock and Edward C. Pickering, successive directors of the Observatory. [Extracted from volume xv. of the *Annals*, (not yet published.)] Cambridge. 1884. pp. vii., 93.
21. On the regraduation of the Harvard College meridian circle *in situ*. *Sidereal Messenger*, Dec. 1884.
22. On a practical solution of the perfect screw problem. *Trans. Am. Soc. of Mechanical Engineers*, vol. v.
23. On the determination of the absolute lengths of eight Rowland gratings. *Proc. Am. Micros. Soc.*, 1885; p. 151.
24. An examination of the standards of length constructed by the Société Gènevoise. *Proc. Am. Acad.*, xx. 379.

Thomas Morgan Rotch.

Clinical Instructor in Diseases of Children, 1878-1885; *Instructor in Diseases of Children*, 1885—.

- 1-9. In the *Boston Medical and Surgical Journal*:
 1. Two cases of temporary aphasia. 19 May, 1881; civ. 462. — 2. A case of intussusception. 6 April, 1882; cvi. 322. — 3. A case of lobular pneumonia. *Ibid.* — 4. A case of thrombosis of the posterior cerebral sinus. 26 Oct. 1882; cvii. 174. — 5. Acute infantile peritonitis. 22 March, 1883; cviii. 268. — 6. A case of malformation of vagina simulating extrophy of the bladder, with lobar pneumonia. 7 Feb. 1884; cx. 132. — 7. The effect of our sudden and repeated climatic changes upon children (editorial). 22 Jan. 1885; cxii. 91. — 8. A case of cancer of the head of the pancreas. 19 Feb. 1885; cxii. 175. — 9. Reports on recent progress in the diseases of children. 19 Jan. 1882; cvi. 57. — 25 Jan. 1883; cviii. 80. — 2 Aug. 1883; cix. 108. — 17 April, 1884; cx. 364. — 4 Dec. 1884; cxi. 534. — 14 May, 1885; cxii. 472.

Josiah Royce.

Instructor in Philosophy, 1882-1884; *Instructor in Philosophy and Forensics*, 1884-1885; *Assistant Professor of Philosophy*, 1885—.

1. The freedom of teaching. *Overland Monthly*, Sept. 1883; 2d series, ii. 235-240.
2. Some recent studies on ideas of motion. (Review of Dr. S. Sticker's "Studien ueber die Bewegungs-Vorstellungen.") *Science*, 30 Nov. 1883; ii. 713-717.
3. Review of Sydney Hodges's "After-images." *Ibid.*, 14 March, 1884; iii. 321.
4. Coues's "Biogen." *Ibid.*, 20 May, 1884; iii. 661-664.
5. The religious aspect of philosophy. Boston. 1885. 8°. pp. 484.
6. The squatter riot of 1850 in Sacramento. *Overland Monthly*, Sept. 1885; 2d series, vi. 225-246.

Charles Robert Sanger.

Assistant in Organic Chemistry, 1881—.

1. Table of logarithms of numbers and chemical factors for use in quantitative analysis. Cambridge. 1882.
2. Ueber die Einwirkung von salpetrinsaurem Kali auf die Mucobromsäure. With H. B. Hill. *Berichte d. deutsch. chem. Gesellsch.*, 1882; xv. 1906.
3. Ueber substituirte Brenzschleimsäure. With H. B. Hill. *Ibid.*, 1884; xvii. 17-59.
4. On brompyromucic acids. With H. B. Hill. *Proc. Am. Acad.*, 1885; xxi. 135.

Nos. 2-4 belong to the series *Contributions from the chemical laboratory of Harvard College*.

Charles Sprague Sargent.

Arnold Professor of Arboriculture, 1879—. *Director of the Arnold Arboretum, 1872—*.

1. A treatise on pruning forest and ornamental trees. Translated from the French of A. De Cars. Published by the Mass. Society for Promoting Agriculture. Boston. 1881. 8°. Also London. 1883. 8°.
2. Notes on North American forests. *Gardiner's Chronicle* (London), 1881; xvi. 7.
3. Forestry bulletins published by the U. S. Census Bureau, nos. 1-25. 1881-1883. 4°.
4. The protection of forests. *North Am. Review*, Oct. 1882; cxxxv. 386-401.
5. Northern transcontinental survey map. Bulletin no. i. Forests of the Yakima region, W. T. New York. 1883. f°.
6. Forests of North America. *Appleton's Cyclopaedia*. New edition. Vol. vii. 847-854.
7. Report on the forests of North America (exclusive of Mexico). Washington. 1884. 4°. pp. ix. 613, maps 39. Atlas to the same. Washington. 1884. f°. Maps 16. [Final report of the tenth census of the United States, vol. ix.]
8. Forest fires. *Thirty-first annual report of the Sec. of Mass. State Board of Agricult.* Boston. 1884. 8°.
9. Botanical papers of George Engelmann. *Botanical Gazette*, 1884; ix. no. 9.
10. George Engelmann (obituary). *Science*, 4 April, 1884; iii. 405.
11. Alphonse Lavallée (obituary). *Ibid.*, 4 July, 1884; iv. 10.
12. The woods of the United States. With an account of their structure, qualities, and uses. With geographical and other notes upon the trees which produce them. (American Museum of Natural History. Jesup collection.) New York. 1885. 8°. pp. viii. 203.
13. Report of the forestry commissioner of the State of New York, appointed by the comptroller pursuant to chap. 507, laws of 1884. With a map of the Adirondac plateau. Published by the Legislature. Albany. 1885. 8°.
14. Forestry. *Johnson's Cyclopaedia*. 2d and 3d biennial supplement. New York. 1885. p. 99.
15. Annual report of the director of the Arnold Arboretum to the President and Fellows of Harvard College, for 1880-81-1884-85. 4 reports. 1882-1886. 8°.

These reports are reprinted, with the addition of appendices, from the President's annual reports.

Dudley Allen Sargent.

Assistant Professor of Physical Training, and Director of the Hemenway Gymnasium, 1879—.

1. A swimming bath. *Harvard Register*. Jan. 1881; iii. 41.
2. Handbook of developing exercises. Boston. 1882. 16°. pp. 51.

3. Health and Strength Papers. *Wide Awake: C. Y. F. R. U. Supplement*, 1882-1883; xv.-xvii.

Contents: 1. Strong boys. Oct. 1882; xv. 24. — 2. The reason why. Nov. 1882; xv. 39. — 3. Free exercises. Dec. 1882; xvi. 57. — 4. Home gymnastics. Jan. 1883; xvi. 74. — 5. Work and play. Feb. 1883; xvi. 89. — 6. Measuring our strength with others. March, 1883; xvi. 98. — 7. Walking and running. April, 1883; xvi. 121. — 8. Jumping and leaping. May, 1883; xvi. 136. — 9. Boating and rowing. June, 1883; xvii. 153. — 10. Bathing and swimming. July, 1883; xvii. 168. — 11. Summer gymnastics. Aug. 1883; xvii. 184. — 12. Training for the prize. Sept. 1883; xvii. 200.

4. Physical education in colleges. *North Am. Review*, Feb. 1883; cxxxvi. 166.

5. The exercise suitable for a minister's life. Abstract. *Christian Register*, 15 March, 1883; lxii. 169.

6. In case of accident. Boston. 1884. 16°. pp. 125.

Previously appeared as a series of articles in *Wide Awake: C. Y. F. R. U. Supplement*. — 1. The bones. Oct. 1883; xvii. 17. — 2. The muscles. Nov. 1883; xvii. 33. — 3. The skin. Dec. 1883; xviii. 49. — 4, 5. The blood and its vessels. Jan. 1884; xviii. 65, 80. — 6. The dressing of wounds. March, 1884; xviii. 96. — 7. The stomach. April, 1884; xviii. 112. — 8. The heart. May, 1884; xviii. 128. — 9, 10. The brain. June, 1884; xix. 144, 160. — 11, 12. The lungs. Aug. 1884; xix. 181, 192.

7. The care of the body. *Christian Union*, 7 Feb. 1884; xxix. 125.

8. Physical training. Read before the American Public Health Association, at Detroit, Mich., 14 Nov. 1883. *Public Health: Reports and papers Am. Pub. Health Assoc.*, ix. 116. Also *The Sanitarian*, March, 1884; xii. 189.

9. Physical training in homes and training schools. Read before the American Social Science Association, at Saratoga, N. Y., 4 Sept. 1883. *Journ. of Social Science*, May, 1884; no. xviii. 44.

10. Hints on exercise. *Congregationalist*, 16 Oct. 1884; xxxvi. 352.

11. The evils of the professional tendency of modern athletics. Read before the American Social Science Association at Saratoga, N. Y., 10 Sept. 1884. *Ibid.*, June, 1885; no. xx. 87.

12. Physico-moral education. *Christian Advocate*, 13 Aug. 1885; lx. 518.

13. Practical talks on the theories and principles of physical training. Delivered before the Boston Young Men's Christian Union, 1882-1885.

Brief abstracts of these lectures were given in the daily papers. Subjects and dates were as follows:—

The physical test of man. 31 Oct. 1882.—What is exercise? When and how to take it. 1 Dec. 1882.—The dangers of a small chest, and how to avoid them. 26 Dec. 1882.—Bathing, its uses and abuses. 26 Jan. 1883.—Training, what to do, and what to avoid. The effects of tobacco and alcohol. 23 Feb. 1883.—The internal struggle for existence. 30 March, 1883.—What we learn from physical examinations. 29 Oct. 1883.—The importance of training. 26 Nov. 1883.—Walking as an exercise. 17 Dec. 1883.—The uses of the gymnasium. 28 Jan. 1884.—Athletic sports and competitive games. 25 Feb. 1884.—What shall we eat to get strong? 31 March, 1884.—The facts determined by the physical examinations at the Union gymnasium. 17 Nov. 1884.—The laws of proportion and the importance of harmony in development. 15 Dec. 1884.—The physical effects of various popular exercises, including military drill for the young, practically considered. 19 Jan. 1885.—The weakness of strong men and the moral dangers of athleticism. 16 Feb. 1885.—The best clothing for health and cleanliness. 16 March, 1885.—How to get rest and recreation. 20 April, 1885.

Franklin Haven Sargent.*Instructor in Elocution, 1880-1882.*

1. Shall we have an American conservatoire? *Century*, July, 1884; xxviii. 475.

Henry Edwards Scott.*Instructor in History, 1884-1885.*

1. The courses of study in history, Roman law, and political economy, at Harvard University. *Methods of Teaching History*. Ed. by G. Stanley Hall. Second edition. Boston. 1885. pp. 167-192.

Samuel Hubbard Scudder.*Assistant Librarian, 1879-1882.*

1. Butterflies: Their structure, changes, and life histories, with special reference to American forms. New York. 1881. 8°. pp. 9, 322, *illustr.*
 2. The structure and affinities of Eupoberia, Meek and Worthen, a genus of carboniferous myriapoda. *Am. Journ. of Science*, March, 1881; 3d series; xxi. 182-186.
 3. List of the orthoptera collected by Dr. A. S. Packard, Jr., in the western U. S. in the summer of 1877. *Rept. U. S. Entomolog. Comm.* II., April, 1881; app. ii. 23-28, *plate* 17.
 4. White ants in the American tertiaryaries. *Harvard University Bulletin*, June, 1881; no. 19, p. 219.
 5. Two new British carboniferous insects, with remarks on those already known. *Geol. Mag.* (London), July, 1881; viii. 293-300, *fig.*
 6. Basilarchia arthemis. The showiest butterfly of Glen Ellis. *Appalachia*, Dec. 1881; ii. 330-336.
 7. The tertiary lake basin at Florissant, Colorado, between South and Hayden Parks. *Bull. U. S. geol. geogr. surv. Terr.*, Oct. 1881; vi. 279-300, *map.*
 8. The same, 2d edition, with additions and alterations. *Twelfth Ann. Rep. U. S. geol. geogr. surv. Terr.*, 1883; pp. 271-293, *map.*
 9. Nomenclator zoologicus. An alphabetical list of all generic names that have been employed by naturalists for recent and fossil animals from the earliest times to the close of the year 1879. Part I. Supplemental list [to those catalogued by Agassiz and Marshall, etc.]. Washington. 1882. 8°. pp. 19, 376. Part II. Universal index. 1884. pp. 2, 340.
- Forms Bulletin of the United States National Museum, no. 19.*
10. A bibliography of fossil insects. 1882. pp. 47. [Bibliographical contributions of Harvard College Library, no. 13. Reprinted from *Harvard University Bulletin*, April, 1880—Oct. 1882.
 11. Fragments of the coarser anatomy of diurnal lepidoptera. *Psyche*, 1882; iii. 263-275; 295-298; 307-309; 319-332. Also separately, 24°. pp. 4, 83.

12. Archipolypoda, a subordinal type of spined myriapods from the carboniferous formation. *Mem. Boston Soc. Nat. Hist.*, 1882; iii. 143-182, *plates* 10-13.
13. Fossil spiders. *Harvard University Bulletin*, Jan. 1882; no. 21, pp. 302-303. Also *Field Naturalist* (Manchester, Eng.), Aug. 1882; i. 61-63.
14. The affinities of Palaeocampa, Meek and Worthen, as evidence of the wide diversity of type in the earliest known myriapods. *Am. Journ. of Science*, Sept. 1882; 3d series, xxiv. 161-170. Also *Ann. Mag. Nat. Hist.* (London), Oct. 1882; [5] x. 286-295.
15. A new and unusually perfect carboniferous cockroach from Mazon Creek, Illinois. *Proc. Boston Soc. Nat. Hist.*, 1882; xxi. 391-396.
16. Notes on some of the tertiary neuroptera of Florissant, Colorado, and Green River, Wyoming Terr. *Ibid.*, 1882; xxi. 407-409.
17. Older fossil insects west of the Mississippi. *Ibid.*, 1882; xxii. 58-60.
18. On additional remains of articulates obtained by Dr. Dawson from sigillarian stumps in the coal field of Nova Scotia. *Philos. Trans. Royal Soc.* (London), 1882; pp. 649-650.
- 19-24. Brief notices. — *Psyche*: 19. Some recent publications on fossil insects, 1880; iii. 138. — 20. Homologies of the cremaster, 1881; iii. 186. — 21. Gosse's observations on the butterflies of North America, 1881; iii. 245-247. — *Proceedings of the Boston Society of Natural History*: 22. On remarkable carboniferous millipedes, 1881; xxi. 122. — 23. On *Lithosialis bohemia*, 1881; xxi. 167. — 24. On a new species of *Scolopendrella*, 1882; xxii. 64-65.

Arthur Searle.*Assistant in the Observatory, 1869-1883; Assistant Professor of Astronomy, 1883—.*

- 1, 2. Schreiben des Herrn A. Searle an den Herausgeber. *Astronomische Nachrichten*, 27 Jan., 21 May, 1881; xcix. 91, 369. [The subject of the communications is certain zodiacal phenomena.]
3. Photometric measurements of the variable stars β Persei and DM. 81° 25, made at the Harvard College Observatory. [E. C. Pickering, Arthur Searle, and O. C. Wendell, observers.] *Proc. Am. Acad.*, April, 1881; xvi. 370.
4. On certain zodiacal phenomena. *Ibid.*, 6 July, 1882; cii. 263.
5. On certain zodiacal phenomena. *Science Observer*, 12 July, 1882; iv. 4.
6. The zodiacal light. *Proc. Am. Acad.*, 1883; xix. 146.
7. The phases of the moon. *Ibid.*, 1884; xix. 310.
8. On Gegenschein and other zodiacal phenomena. *Astronomische Nachrichten*, 18 Aug. 1884; cix. 257.

9. Observations with the meridian photometer during the years 1879-1882. By E. C. Pickering, aided by Arthur Searle and O. C. Wendell. 1884-1885. pp. viii., 512, plates 3. *Annals of the Astronomical Observatory of Harvard College*, xiv.

Nathaniel Southgate Shaler.

Professor of Palaeontology, 1869—.

1. Kentucky geological survey. New series. Reports of progress, vol. v. Frankfort, Ky. 8° — *Memoirs*, vol. ii. Frankfort, Ky. 4°. Much of the matter contained in these volumes has been reprinted separately, sometimes with changes and additions.
2. Propositions concerning the classifications of lavas considered with reference to the circumstances of their extrusion. *Anniversary Memoirs Boston Soc. Nat. Hist.* Boston. 1880. 4°.
3. The geology of Boston and its environs. *Memorial History of Boston*. Ed. by J. Winsor. i. Boston. 1880. 1.8°. pp. 1-8.
4. The future of weather foretelling. *Atlantic Monthly*, Nov. 1880; xlv. 645.
5. Illustrations of the earth's surface. I. Glaciers. With W. M. Davis. Boston. 1881. 4°. plates.
6. The island of Campobello. Preliminary report. Cambridge. 1881. 1.8°.
7. A winter journey in Colorado. *Atlantic Monthly*, Jan. 1881; xlvii. 46.
8. On the recent advances and recessions of glaciers. *Proc. Boston Soc. Nat. Hist.*, March, 1881; xxi. 162.
9. The value of university records. *Harvard Register*, April, 1881; iii. 200.
10. Hurricanes. *Atlantic Monthly*, March, 1882; xlix. 330.
11. Improvement of the native pasture lands of the far west. *Science*, March, 1883; i. 186.
12. The floods of the Mississippi valley. *Atlantic Monthly*, May, 1883; li. 653.
13. The American swamp cypress. *Science*, July, 1883; ii. 38.
14. A first book in geology. Designed for the use of beginners. Boston. 1884. 8°.
15. On the origin of kames. *Proc. Boston Soc. Nat. Hist.*, Feb. 1884; xxiii. 36. Also separately.
16. The red sunsets. *Atlantic Monthly*, April, 1884; liii. 475.
17. Altruism. A lecture delivered at the Harvard Divinity School. *Christian Register*, 1 May, 1884.
18. The negro problem. *Atlantic Monthly*, Nov. 1884; liv. 696.
19. Kentucky, a pioneer commonwealth. Boston. 1885. 16°.
20. Humanism in the study of nature. *Science*, 24 July, 1885; vi. 64-66.
21. Professor Shaler has also written many book reviews for the *Atlantic Monthly*, *Nation*, *Science*, *Boston Advertiser*, etc.

Frederick Cheever Shattuck.

Clinical Instructor in Auscultation and Percussion, 1879-1884; *Instructor in the Theory and Practice of Physic*, 1884—.

1. Diseases of the lungs. *Supplement to Ziemssen's Cyclopaedia of the practice of medicine*. New York, 1881.
2. A curious endemic. *Boston Med. and Surg. Journ.*, 27 Oct. 1881; cv. 400.
3. Cirrhosis of the lungs. Enormous cavity, hypertrophy of the right ventricle. *Ibid.*, 23 Nov., 1882; cvii. 489.
4. Till the doctor comes. A series of articles. *Youth's Companion*, 1881, 1882.
5. Two cases from practice. *Boston Med. and Surg. Journ.*, 17 May, 1883; cviii. 460-462.
6. The diagnosis of the so-called "functional murmurs." *Ibid.*, 12 July, 1883; cix. 28-30.
7. A case of multiple sarcoma of the skin successfully treated by hypodermic injections of Fowler's solution. *Ibid.*, cxi. 618.
8. The home treatment of phthisis. *Trans. Am. Climatolog. Assoc.*, 1885. Also *N. Y. Med. Journ.*, 25 Sept. 1885.
9. Half-yearly reports on progress in thoracic disease. *Boston Med. and Surg. Journ.*, Feb. and Aug. 1884 and 1885.

Edward Stevens Sheldon.

Tutor in German, 1878-1881; *Instructor in Modern Languages*, 1881-1884; *Assistant Professor of Romance Philology*, 1884—.

1. The New England pronunciation of o. *Trans. Am. Philol. Assoc.* for 1883, vol. xiv. Appendix, p. xix. Cambridge. 1884.

Luther Dimmick Shepard.

Professor of Operative Dentistry, 1879-1882.

1. The Harvard Dental School. *Harvard Register*, April, 1881; iii. 218-221.

John Langdon Sibley.

Librarian Emeritus, 1877-1885.

1. The football burial services in 1880. *Harvard Register*, June, 1881; iii. 329.
2. Biographical sketches of graduates of Harvard University in Cambridge, Massachusetts. Vol. i. 1659-1677. Cambridge. 1881. 8°. pp. viii., 557. — Vol. ii. 1678-1689. Cambridge. 1885. 8°. pp. viii., 457. Vol. i. was published in 1873.
3. Current necrology of Harvard graduates. *Harvard University Bulletin*, 1882-1885; nos. 22, 23, 24, 26, 27, 28, 30, 31, 32.
4. Annual necrology of Harvard graduates, in the *Boston Advertiser* (and other newspapers), on Commencement day of each year, 1881-1885.

Clement Lawrence Smith.

Assistant Professor of Latin, 1873-1883; Professor of Latin, 1883—. *Dean of the College Faculty, 1882—.*

1. Virgil's instructions for ploughing, fallowing, and the rotation of crops. (Georgics I. 43-83.) *Am. Journ. of Philol.*, 1881; ii. 425-445.
2. Reports as Dean of the College faculty. *Annual reports of the President, 1881-1882—1884-1885.*

Freeman Snow.

Instructor in Forensics, 1880-1881; Instructor in Forensics and History, 1881-1883; Instructor in Forensics, 1883-1884.

1. A guide to the study of the constitutional and political history of the United States. 1789-1860. Intended as the basis of a course of lectures or of a course of private study. Cambridge. 1882-1883. 8°.

Edward Knight Stevens.

Assistant in Organic Chemistry, 1882-1883.

1. The electro-motive force of alloys. With J. Trowbridge. *Proc. Am. Acad.*, 1883; xviii. 221-225.
2. On mucophenoxybromic acid. With H. B. Hill. *Ibid.*, 1883; xix. 262. Also *Am. Chem. Journ.*, vi. 187.

Francis Humphreys Storer.

Professor of Agricultural Chemistry, 1870—, and Dean of the Bussey Institution.

1. Significance of active nitrogen for grain. *Rural New-Yorker*, Oct. 1880; xxxix. 673.
2. Experiments on gravelled bog-land. *Ibid.*, Oct. 1880; xxxix. 686.
3. Which form of nitrogen is most assimilable by plants? *Ibid.*, Nov. 1880; xxxix. 766.
4. Preservation of apples. *Ibid.*, Nov. 1880; xxxix. 784.
5. Some merits of the ailanthus. *Ibid.*, Dec. 1880; xxxix. 814.
6. Power of woodland to hold water. *Ibid.*, Jan. 1881; xl. 37.
7. Influence of manures upon the potato disease. *Ibid.*, Jan. 1881; xl. 53.
8. Fodder value of frozen potatoes. *Ibid.*, Jan. 1881; xl. 67.
9. The prevention of infection. *Ibid.*, Feb. 1881; xl. 116.
10. Bussey school of agriculture and horticulture. *Harvard Register*, Feb. 1881; iii. 63.
11. Economy of using appetizing food for fattening cattle. *Rural New-Yorker*, April, 1881; xl. 222.
12. Disinfection versus ventilation. *Ibid.*, April, 1881; xl. 241.
13. Worthless compounds of nitrogen in some commercial fertilizers. *Ibid.*, May, 1881; xl. 350.

14. Agricultural education a means of political enlightenment. *Harvard Register*, June, 1881; iii. 332-334.
15. Preservation of brewers' grains. *Rural New-Yorker*, July, 1881; xl. 499.
16. Why blue-grass is so called. *Ibid.*, Aug. 1881; xl. 546.
17. Soft wheat in Germany. *Ibid.*, Sept. 1881; xl. 622.
18. Tree trunks as water conductors. *Ibid.*, Sept. 1881; xl. 662.
19. The Massachusetts law of trespass. *Ibid.*, Oct. 1881; xl. 669.
20. Experiments on the use of wilted potatoes as seed. *Ibid.*, Oct. 1881; xl. 729.
21. Ensilaging night-soil. *Am. Agriculturist*, Nov. 1881; xl. 470.
22. Artificial milk. *Ibid.*, Nov. 1881; xl. 486.
23. Temperature of the body after eating. *Rural New-Yorker*, Jan. 1882; xli. 10.
24. Healthfulness of ensilage. *Ibid.*, Jan. 1882; xli. 59.
25. On the harm done by earth worms. *Cultivator and Country Gentleman*, Feb. 1882; xlvii. 108.
26. Waste of food from non-assimilation. *Am. Agriculturist*, Feb. 1882; xli. 51.
27. Skim-milk and whey. *Rural New-Yorker*, Nov. 1882; xli. 765.
28. Rock disintegration in hot, moist climates. *Science*, Feb. 1883; i. 39.
29. Domestic ducks that fly abroad like pigeons. *Ibid.*, Feb. 1883; i. 67.
30. "Mother of petre" and "mother of vinegar." *Ibid.*, March, 1883; i. 98.
31. A caterpillar-eating hen-hawk. *Ibid.*, March, 1883; i. 168.
32. Experiments on the gases occluded by coke (with D. S. Lewis). *Am. Chem. Journ.*, March, 1883; iv. 409.
33. On the oxidation of cork stoppers and rubber joints. *Ibid.*, April, 1883; v. 68.
34. Robins, sparrows, and earth-worms. *Science*, May, 1883; i. 457.
35. Symmetrical linear figures produced by reflection along a river-bank. *Science*, July, 1883; ii. 37.
36. Fermentation of new-made hay. *Rural New-Yorker*, Sept. 1883; xlii. 555.
37. White bread and brown. *Ibid.*, Nov. 1883; xlii. 772.
38. Phosphatic land-plaster. *Ibid.*, Dec. 1883; xlii. 812.
39. Memoranda of methods employed by fishermen for "barking" and in other ways preserving nets and sails. *Am. Chem. Journ.*, Dec. 1883; v. 440. Also, with slight additions, in *Rep. of U. S. Commissioner of fish and fisheries for 1882*; x. 295.
40. Distribution of fat in the bodies of animals. *Rural New-Yorker*, Dec. 1883; Jan., Feb. 1884; xlii. 6, xliii. 9, 25, 41, 50, 89.
41. Mode of action of shell- and rock-boring mollusks. *Am. Journ. of Science*, July, 1884; 3d series, xxviii. 58.

42. Obituary notice of Dr. Robert Angus Smith. *Ibid.*, July, 1884; 3d series, xxviii. 79.
43. An item of history, as to the idea of making the parts of guns interchangeable. *Journ. Franklin Institute*, Nov. 1884; cxviii. 385.
44. A popular prejudice: The mad stone. *Science*, Aug. 1885; vi. 163.
45. An elementary manual of chemistry abridged from Eliot and Storer's manual, with the co-operation of the authors, by W. R. Nichols. New editions.
46. Bulletin of the Bussey Institution, Jamaica Plain, Boston. Vol. ii. pt. 4. 1884. Boston. 1884. 8°.

Contents: — 21. Preface. pp. 253-254. — 22. On the results of fodder-analyses of leaves of the yellow- or curled-dock (*Rumex crispus*), and of sprouts of the common milk-weed (*Asclepias Cornuti*). pp. 255-260. — 23. Trials to determine the rates at which some fertilizers may be scattered by hand. pp. 261-263. — 24. Experiments on feeding mice with painter's-putty and with other mixtures of pigments and oil. pp. 264-279. — 25. Experiments on feeding plants with the nitrogen of vegetable mould. pp. 280-288. — 26. Experiments on the germination of weed seeds. pp. 289-291. — 27. Description of an attempt to assay soils by the method of sand culture. pp. 292-316. — 28. A special instance of the resistance of clover-seeds to water. pp. 317-323. — 29. Cherry-stones eaten by the domestic pigeon. pp. 324-336. — 30. Notes on certain physical characters of two common grasses. By the late L. S. Ford. pp. 337-342. — 31. Some items of American experience which suggests that potassic fertilizers may perhaps act in several different ways. pp. 343-372.

All the articles except no. 30 were written by Prof. Storer. The annual reports of the Dean of the Bussey Institution will be found in the President's reports.

Frank William Taussig.

Instructor in Political Economy, 1882—.

1. Protection to young industries, as applied in the United States. Cambridge. 1883. 8° pp. 69.
2. The same. Second ed. New York. 1884. 8° pp. 72.
3. Introductory note and supplemental chapter to Laveleye's "Elements of political economy." New York. 1884. 8° pp. 35.
4. The history of the present tariff, 1860-1883. New York. 1885. 8° pp. 111.

James Bradley Thayer.

Royall Professor of Law, 1873-1883; *Professor of Law*, 1883—.

1. Bedingfield's case — declarations as a part of the res gesta. *Am. Law Review*, Dec. 1880; xiv. 817.—Jan. 1881; xv. 1.—Feb. 1881; xv. 71.
2. Constitutionality of legislation; the precise question for a court. *Nation*, 10 April, 1884; xxxviii. 314.
3. Memorandum on the legal effect of opinions given by judges to the executive and the legislature under certain American constitutions. Boston. 1885. 8°.

This also appears in the appendix to a pamphlet published by Chief Justice C. S. Bradley, of Rhode Island, entitled "The methods of changing the constitutions of the states, especially that of Rhode Island." Boston. 1885.

Joseph Henry Thayer.

Lecturer on Biblical Theology, 1883-1884; *Bussey Professor of New Testament Criticism and Interpretation*, 1884—.

1. An address before the alumni of the Divinity School commemorative of Dr. Ezra Abbot. *Ezra Abbot. Published for the alumni of Harvard Divinity School*. Cambridge. 1884. pp. 73.
2. A tribute to Prof. Ezra Abbot. *Independent*, 27 March, 3 April, 1884. Also *Christian Register*, 3 April, 1884.
3. A notice of Dean Burgon's "The Revision revised." *Andover Review*, April, 1884; i. 45.
4. A notice of the first part of the Prolegomena to Tischendorf's Greek Testament. Eighth edition. *Ibid.*, June, 1884; i. 676.
5. Edited: Notes on Scrivener's "Plain introduction to the criticism of the New Testament, third edition." Chiefly from memoranda of the late Prof. Ezra Abbot, D.D., LL.D. With additions from Profs. Harris and Warfield and Dr. C. R. Gregory. [Critical appendix to the Andover Review, vol. iii.] Boston, etc. 1885. 8°.

Robert Ellis Thompson.

Lecturer on Protective Tariffs, 1884-1885.

1. Protection to home industry. Four lectures delivered in Harvard University, January, 1885. New York. 1886. 8° pp. (6), 109.

William Hopkins Tillinghast.

Assistant in charge of the Ordering Department at the Library, 1882—.

1. Notes on the historical hydrography of the Handkerchief Shoal in the Bahamas. Cambridge. 1881. pp. (8). [Bibliographical contribution, no. 14. Reprinted from *Harvard University Bulletin*, Oct. 1881, no. 20, pp. 258-263.]
2. Epitome of ancient, mediaeval, and modern history, by Carl Ploetz. Translated, with extensive additions, by Wm. H. Tillinghast. Boston, etc. 1884. 8° pp. xii., 618.

A second and third edition have appeared (1884, 1885), each revised and corrected.

3. Edited: *Catalogus senatus academici Collegii Harvardiani, et eorum qui muneribus et officiis prae fuerunt, quique honoribus academicis donati sunt, in universitate quae est Cantabrigiae in civitate Massachusettsensium. Cantabrigiae*. 1885. 8° pp. xlii., 144, 122, 78.

Crawford Howell Toy.

Hancock Professor of Hebrew and other Oriental Languages, and Dexter Lecturer on Biblical Literature, 1880—.

1. The study of Arabic. *Harvard Register*, Oct. 1880; i. 212.

2. The home of the primitive Semitic race. *Trans. Am. Philol. Assoc.*, 1881; xii. 26-51.
3. History of the religion of Israel. Boston. 1882. 18°. pp. xvii., 150.
4. The same. Second ed. Boston. 1883. 18°. pp. xvii., 155.
Third edition, 1884, has the same number of pages as the second.
5. Quotations in the New Testament. New York. 1884. 8°. pp. xlv., 321.
6. The Masoretic vowel-system. *Hebraica* (Chicago), Jan. 1885; i. 137.
7. Date of the Korah-Psalms. *Journal of the Soc. of Biblical Literature and Exegesis*, June and Dec. 1884; pp. 80-92.

John Trowbridge.

Professor of Physics, 1880—.

1. Physical research at Harvard University. *Harvard Register*, Dec. 1880; i. 240.
2. Effect of cold on magnetism. *Am. Journ. of Science*, 1881; xxi. 316.
3. Suggestions of subjects for students' work in physics [nos. 13-30]. *Harvard Library Bulletin*, Jan. 1881; no. 17, p. 94.
4. Extension of the signal service. *Harvard Register*, April, 1881; iii. 191.
5. The extension of the signal service. *Popular Science Monthly*, Feb. 1882; xx. 507-511.
6. The Thomson effect. With C. B. Penrose. *Am. Journ. of Science*, Oct. 1882; xxiv. 379-387.
7. On the heat produced in iron and steel by reversals of magnetization. With C. B. Penrose. *Proc. Am. Acad.*, 1883; xviii. 205-209.
8. Influence of magnetism upon thermal conductivity. With C. B. Penrose. *Ibid.*, 210-213.
9. Papers on thermo-electricity. No. i. With C. B. Penrose. *Ibid.*, 214-220.
10. The electro-motive force of alloys. With E. K. Stevens. *Ibid.*, 221-225.
11. The boundary line between science and religion. *Christian Register*, 1 March, 1883.
12. The new physics. A manual of experimental study for high schools and preparatory schools for college. New York. 1884. 16°. pp. xix., 367, *illustr.*
13. Heat produced in iron and steel by reversals of magnetization. With W. N. Hill. *Am. Journ. of Science*, Jan. 1884; 3d series, xxvii. 58-64.
14. Progress of electrical science during 1883. *Science*, 29 Feb. 1884; iii. 258-261.
15. Thunderstorms. *Ibid.*, 1 Aug. 1884; iv. 97-99.
16. Atmospheric electricity. *Ibid.*, 29 Aug. 1884; iv. 164.
17. On telegraphing without a cable. *Ibid.*, 19 Sept. 1884; iv. 297.
18. What is electricity? Address before section B. of the American Association for the advancement of Science. 4 Sept. 1884. *Popular Science Monthly*, Nov. 1884; xxvi. 76-88.
19. Measurement of strong electrical currents. *Am. Journ. of Science*, 1885; 3d series, xxix. 226.
20. Elasticity of ice. *Ibid.*, 349.
21. Application of photography to electrical measurements. *Ibid.*, 371.
22. Alternating currents. *Ibid.*, 377.
23. The effect of temperature on the permeability of iron and cobalt. With A. L. McRae. *Proc. Am. Acad.*, 1885; xx. 462-472.
24. A standard of light. *Ibid.*, 494-499.
25. Recent advance in electrical science. *Science*, 16 Jan. 1885; v. 45-47.
26. The Jefferson physical laboratory. *Ibid.*, 20 March, 1885; v. 229-231, *illustr.*
27. Niagara falls considered as a source of electrical energy. *Ibid.*, 15 May, 1885; v. 401-403.
28. Cause of irregularities in the action of galvanic batteries. With H. V. Hayes. *Am. Journ. of Science*, July, 1885; 3d series, xxx. 34-37.
29. A standard of light. *Ibid.*, Aug. 1885; 3d series, xxx. 128-133.
30. Edited, as associate editor of the *American Journal of Science*, the physical notices which appear in each number of that journal, 1880-1885.
Nos. 6-10, 23, 24, belong to the series *Contributions from the physical laboratory of Harvard College*.

. The following articles belong to the series *Contributions from the physical laboratory of Harvard College*, and represent work done by students under the supervision of Prof. Trowbridge. They appeared in the *Proceedings of the American Academy of Arts and Sciences*.

1. A paper on the propagation of magnetic waves in soft iron. By H. Whiting. 1881; xvi. 322-341, *plates* 2.
2. On the spectrum of arsenic. By O. W. Huntington. xvii. 35, *plate* 1.
3. Thermo-electricity — Peltier and Thomson effect. By C. B. Penrose. *Ibid.*, 39.
4. Thermo-electric line of copper and nickel below 0°. By C. B. Penrose. *Ibid.*, 47.
5. Relation between superficial energy and thermo-electricity. By C. B. Penrose. 1885; xx. 417.
6. On a new method for determining the mechanical equivalent of heat. By A. G. Webster. *Ibid.*, 490.

Marshman Edward Wadsworth.

Assistant in Lithology in the Museum of Comparative Zoölogy, 1877—.

1. Notes on the geology of the iron and copper districts of Lake Superior. *Bull. Mus. Comp. Zoöl.*, July, 1880; vii. 1, pp. 1-164, xi., *plates* 6.
2. The appropriation of the name Laurentian by the Canadian geologists. *Proc. Boston Soc. Nat. Hist.*, 1881; xxi. 121, 122.
3. On the lithological character of the palaeolithic implements of the valley of the Delaware. *Ibid.*, 146, 147.
4. Some points relating to the geological exploration of the fortieth parallel. *Ibid.*, 243-274.

5. On the relation of the Quincy granite to the primordial argillite of Braintree, Massachusetts. *Ibid.*, 274-277.
 6. On the trachyte of Marblehead Neck, Massachusetts. *Ibid.*, 288-294. Also *Harvard University Bulletin*, Oct. 1881; no. 20, p. 267.
 7. Minerals of North Carolina. *Am. Naturalist*, 1881, xv. 380-382.
 - 7^a. On an occurrence of gold in Maine. *Bull. Mus. Comp. Zool.*, May, 1881; vii. 3, p. 181. Also *Harvard University Bulletin*, June, 1881; no. 19, p. 219.
 8. A microscopical study of the iron ore or peridotite of Iron Mine Hill, Cumberland, R. I. *Ibid.*, 183-187. Also *ibid.*; also *Proc. Boston Soc. Nat. Hist.*, 1881; xxi. 195-197.
 9. A microscopical examination of the Mt. Ktaadn granites. *Ibid.*, June, 1881; vii. 5, pp. 209, 210.
 10. A microscopical examination of some tufas from Florissant, Colorado. *Bull. U. S. Geol. Survey*, Sept. 1881; vi. 286. Also [*Hayden's*] 12th ann. rept. U. S. Geol. Survey, 1883; p. 276.
- This article would be more properly entitled "The fossil-bearing shales of Florissant, Col."
11. The argillite and conglomerate of the Boston basin. *Proc. Boston Soc. Nat. Hist.*, 1882; xxii. 131-133.
 12. Notes in geology and lithology. *Harvard University Bulletin*, April, 1882; no. 22, pp. 259, 260 [nos. 1-5]. — Oct. 1882; no. 23, pp. 431, 432 [no. 6]. Also *Proc. Boston Soc. Nat. Hist.*, 1881-1882; vol. xxi., *passim*.
- Contents: 1. The Marblehead diabase. — 2. Picotite found in the groundmass and felspar of basalt. — 3. Zirconyenite from Marblehead. — 4. The Stoneham limestone. — 5. The Braintree argillite and Quincy granite. — 6. On the relations of the so-called felsite to the conglomerate on Central avenue, Milton, Mass.
13. Descriptive catalogue of one hundred thin sections of American and foreign rocks. Boston. 1883. 12^p. pp. 20.
 14. Our ancestors. An address delivered at the Wadsworth reunion, 13 Sept. 1882. *Two hundred and fifty years of the Wadsworth family in America*. By H. A. Wadsworth. Lawrence, 1883; pp. 35-41.
 15. The Wadsworth (Wordsworth) name in England. *Ibid.*, 88-130.
 16. Microscopic characters of some South Wales rocks. *Trans. Am. Inst. Mining Engineers*, Feb. 1883; xi. 499-501.
 17. Some instances of atmospheric action on sandstone. *Proc. Boston Soc. Nat. Hist.*, 7 Feb. 1883; xxii. 201-203. Also *Science*, 9 March, 1883; i. 146. Also *Am. Journ. of Science*, 1884; 3d series, xxviii. 460, 467.
 18. Cross on andesite from Colorado. *Am. Naturalist*, May, 1883; xvii. 520, 521.
 19. The Bishopville and Waterville meteorites. *Am. Journ. of Science*, July, 1883; 3d series, xxvi. 32-38, 248. Also *Science*, 20 April, 4 May, 1883; i. 314, 377.
 20. Note on the paramorphic origin of the hornblende of the crystalline rocks of the northwest. *Ibid.*, Aug. 1883; 3d series, xxvi. 155.
 21. The fortieth parallel rocks. *Proc. Boston Soc. Nat. Hist.*, 1883; xxii. 412-432.
 22. Notes on the lithology of the island of Jura, Scotland. *Ibid.*, 1883; xxii. 485-489.
 23. Lithological studies. A description and classification of the rocks of the Cordilleras. *Mem. Mus. Comp. Zool.*, 1884; xi. 1, pp. xvi., 208 (2), xxxiii., plates 8.
 24. The lateral secretion theory of ore deposits. *Engineering and Mining Journ.*, 1884; p. 364-366.
 25. The theories of ore deposits. *Nation*, 7 Feb. 1884; xxxviii. 123.
 26. Methods of instruction in mineralogy. *Popular Science Monthly*, April, 1884; xxiv. 754-759.
 27. Lithology of some Cordillerian volcanoes. *Am. Naturalist*, May, 1884; xviii. 526-528.
 28. On the evidence that the earth's interior is solid. *Ibid.*, June, July, Aug. 1884; xviii. 587-594, 678-686, 767-773. Also separately, Philadelphia, 1884. 8^p.
 29. Notes on the rocks and ore deposits in the vicinity of Notre Dame Bay, Newfoundland. *Am. Journ. of Science*, Aug. 1884; 3d series, xviii. 94-104.
 30. The azoic system and its proposed subdivisions. With J. D. Whitney. *Bull. Mus. Comp. Zool.*, Aug. 1884; vii. 11, pp. xvi., 331-365.
 31. Syenite and gabbro in Massachusetts. *Geol. Mag.*, April, 1885; 3d series, ii. 207-210.
 32. An olivine-bearing diabase from St. George, Maine. With Q. E. Dickerman. *Proc. Boston Soc. Nat. Hist.*, 1884; xxiii. 28, 29.
 33. On the relation of the "Keweenaw series" to the eastern sandstone in the vicinity of Torch Lake, Mich. *Ibid.*, 1884; xxiii. 172-180. Also *Science*, 2 May, 1884; iii. 553.
 34. Some points on the lateral secretion theory of ore deposits. *Ibid.*, 1884; xxiii. 197-208.
 35. On a supposed fossil from the copper-bearing rocks of Lake Superior. *Ibid.*, pp. 208-211.
 - 36-65. In *Science*: 36. Notes on rocks and meteorites. 1883, i. 17, 18, 46, 47, 76, 464, 490, 520, 521, 575, 609; ii. 52, 111, 380, 381, 446, 629, 829, 830. — 37. Algae and spray markings. 16 Feb. 1883, i. 39. — 38. The hornblende granite of Quincy, Mass. 23 Feb. 1883; i. 76. — 39. Meteoric and terrestrial rocks. 9 March, 1883; i. 127-130. — 40. Hunting for lost glaciers with a microscope. i. 177. — 41. Keweenaw-Point geology. 16 March, 1883; i. 248, 249. — 42. The Cranbourne meteoric iron. 13 April, 1883; i. 285, 286. — 43. United States geologists, sandstones, and the Keweenaw series. 20 April, 1883; i. 307. — 44. Lithology of the Eisengebirge. 27 April, 1883; i. 342. — 45. Peruvian stone-quarrying. *Ibid.*, 347. — 46. The Cheviot andesites and porphyries. 4 May, 1883; i. 368. — 47. The lizard schists and serpentines. 11 May, 1883; i. 402, 403. — 48. Molluscan rock-boring. 18 May, 1883; i. 422. — 49. Hypersthene-andesite. 1 June, 1883; i. 490. — 50. St. David's rocks and universal law. 15 June, 1883; i. 541. — 51. The microscopic evidence of a lost continent. 29 June, 1883; i. 590-592. — 52. Fossil-bearing schists. 29

June, 1883; i. 608, 609.—53. Ocean waters and bottoms. 13 July, 1883; ii. 41-43.—54. The Potsdam and St. Peter's sandstone. 13 July, 1883; ii. 52.—55. The Prescott (Arizona) mining region. 20 July, 1883; ii. 86.—56. Journalistic lithology. 27 July, 1883; ii. 111.—57. The eruptive rocks of Tryberg, Schwarzwald. 3 August, 1883; ii. 141, 142.—58. The mineral resources of the United States. 21 Sept. 1883; ii. 413, 414.—59. The Maine building stones. 14 Dec. 1883; ii. 771, 772.—60. The Bismuth deposits of Australia. 28 Dec. 1883; ii. 830.—61. The olivine rocks of North Carolina. 18 April, 1884; iii. 486, 487.—62. On the parallel development of personal names and natural history nomenclature. 8 Aug. 1884; iv. 109, 110.—63. Some United States geologists and the propylite question. *Ibid.*, 111.—64. Volcanic dust east of the Rocky mountains. 24 July, 1885; vi. 63.—65. The mineral wealth of the United States. 31 July, 1885; vi. 99, 100.

Oliver Fairfield Wadsworth.

Clinical Instructor in Ophthalmoscopy, 1881—.

1. The fovea centralis in man. *Beiträge zur Ophthalmologie als Festgabe Friedrich Horner*. Wiesbaden, 1881.
2. Neuritis after measles. *Trans. Am. Ophthalmolog. Soc.*, 1880; iii. 125.
3. Photograph of the fovea centralis of the retina. *Ibid.*, 174.
4. Optico-ciliary neurotomy. *Ibid.*, 1882; iii. 280. Also, with a few additions, in the *Medical and Surgical Reports of the City Hospital of Boston*, 3d series, 1882, p. 217.
5. Some cases of hysterical affection of vision. *Boston Med. and Surg. Journ.*, 18 Oct. 1883; cix. 368.
6. A case of tuberculosis of the ciliary body and iris. *Trans. Am. Ophthalmolog. Soc.*, 1884; iii. 474.
7. On the apparent curvature of surface produced by prisms. *Ibid.*, 481.
8. Three cases of homonymous hemianopia. *Boston Med. and Surg. Journ.*, 22 May, 1884; cx. 483.
9. A case of myxoedema with atrophy of the optic nerves. *Trans. Am. Ophthalmolog. Soc.*, 1885; iii. 725.
10. Recent progress in ophthalmology. *Boston Med. and Surg. Journ.*, 1881, civ. 344, cv. 441.—1882, cvi. 517; cvii. 540.—1883, cviii. 532; cix. 533.—1884, cx. 556.—1885, cxii. 83; cxiii. 175.
11. Dr. Wadsworth was one of the editors of the *Medical and Surgical Reports of the Boston City Hospital*. 3d series. Boston. 1882.

Francis Amasa Walker.

University Lecturer on the Resources of the United States, 1882; *on the Tenure of Land*, 1882-1883.

1. American agriculture. *Princeton Review*, May, 1882.
2. Land and its rent. Boston. 1883. 16°.

3. Political economy. New York. 1883. 8°.
4. American manufactures. *Princeton Review*, March, 1883.

John Collins Warren.

Instructor in Surgery, 1871-1882; *Assistant Professor in Surgery*, 1882—.

1. The thick cutis vera. Article in *A Manual of Histology*. Edited by T. E. Satterthwaite, M.D. New York. 1881. 8°.
2. Medical societies: their organization and the nature of their work. An address delivered at the centennial meeting of the Mass. Medical society, 8 June, 1881. *Boston Med. and Surg. Journ.*, 16, 23, 30 June, 1881; civ. 553-558, 580-585, 601-606.
3. Case of President Garfield. *Ibid.*, 17 Nov. 1881; cv. 463-470.
4. Excision of the wrist joint. *Ibid.*, 26 Oct. 1882; cvii. 388-390.
5. Two cases of colotomy. *Ibid.*, 22 Feb. 1883; cviii. 172.
6. Provisional report on healing of arteries after ligature. *Ibid.*, 1 May, 1884; cx. 418.
7. Other reports and brief notices. *Ibid.*, 1880-1885.
8. Healing of arteries after ligature, acupressure, and torsion. Article in *Wood's Reference Handbook of Medical Sciences*. Ed. by A. H. Buck, M.D. New York. 1885.

Joseph Weatherhead Warren.

Assistant in Physiology, 1881—; *Instructor in Oral Pathology and Anatomy*, 1882-1885; *Instructor in Experimental Therapeutics*, 1884-1885.

1. Notes on progress in physiological chemistry. *Boston Med. and Surg. Journ.*, 28 Sept. 1882; cvii. 294-297.—1 Nov. 1883; cix. 413.
2. Glykogen. *Ibid.*, 23 Aug. 1883; cix. 171-174.
3. Plethysmographische Untersuchungen ueber die Gefässnerven der Extremitäten (with Dr. H. P. Bowditch). *Centralblatt für die Medicinischen Wissenschaften*, 1883; xxi. 513.
4. Register zum i.-xxx. Band des Archivs für die gesammte Physiologie. Bonn. 1885. 8°.
5. Cocaine discs. A convenient form for administration. *Boston Med. and Surg. Journ.*, 29 Jan. 1885; cxii. 105.

Sereno Watson.

Curator of the Herbarium, 1874—; *Instructor in Phytography*, 1881-1884.

- 1-2. Contributions to American botany: 1. List of plants from southwestern Texas and northern Mexico, collected chiefly by Dr. E. Palmer in 1879-80: 1. Polypetalæ.—2. Descriptions of new species of plants from our western territories. *Proc. Am. Acad.*, 1882; xvii. 316-382.

Also separate issue, as "Contributions to American botany: X." with index. pp. (6). 10 Aug. 1882.

- 3-4. Contributions to American botany : 3. List of plants from southwestern Texas and northern Mexico, collected chiefly by Dr. E. Palmer in 1879-80 : II. Gamopetalæ to Acotyledonæ. — 4. Descriptions of some new western species. *Ibid.*, 1883 ; xviii. 96-196.

Also separate issue, as "Contributions to American botany : XI." with index. pp. (3). 15 Aug. 1883.

- 5-6. Contributions to American botany : 5. A history and revision of the roses of North America. — 6. Descriptions of some new species of plants, chiefly from our western territories. *Ibid.*, 1885 ; xx. 324-378.

Also separate issue, as "Contributions to American botany : XII." with index. pp. (2). 21 Feb. 1885.

7. Manual of the mosses of North America. By Leo Lesquereux and Thomas P. James. [Revised and edited by Mr. Watson.] Boston. 1884. 8°. pp. 447.

Samuel Gilbert Webber.

Clinical Instructor in Diseases of the Nervous System, 1875—.

1. The pathological histology of the spinal cord. *Med. and Surg. reports of the City Hospital of Boston.* 3d series. 1882. pp. 1-33, plates 3.
2. Lead paralysis. *Arch. of Medicine*, Aug. 1882 ; viii. 24-39.
3. Cases of locomotor ataxia. *Journ. of Nervous and Mental Diseases*, July, 1883 ; x. 439-448.
4. Multiple neuritis. *Arch. of Medicine*, 1884.
5. A treatise on nervous diseases ; their symptoms and treatment. A text-book for students and practitioners. New York. 1885. 8°.
- 6-15. In the *Boston Medical and Surgical Journal* : 6. Intermittent aphasia (epileptiform attacks) disease of arterioles. 11 Aug. 1881 ; cv. 130. — 7. A case of diabetes mellitus, recovery under morphia treatment. 22 Sept. 1881 ; cv. 277. — 8. Paraplegia (paraparesis) from functional weakness. 19 Jan. 1882 ; cvi. 54-57. — 9. Treatment of vomiting by abstinence from food and medicine. 24 Aug. 1882 ; cvii. 180. — 10. A case of Bright's disease treated by pilocarpine. 26 Oct. 1882 ; cvii. 390. — 11. Cerebral anaemia and exhaustion. 2 Nov. 1882 ; cvii. 415-417. — 12. Abnormal distribution of arteries at base of brain. 7 Dec. 1882 ; cvii. 543. — 13. Ocular symptoms as localizing symptoms. 8, 15 March, 1883 ; cviii. 217-220, 244-247. — 14. Two cases of paraphasia, one with autopsy. 20 Dec. 1883 ; cix. 579-582. — 15. Cases of lesion of the brain cortex attended with unilateral symptoms. 17 Jan. 1884 ; cx. 49-53.

Barrett Wendell.

Instructor in English, 1880-1881, 1882—.

1. The duchess Emilia. A romance. Boston. 1885. 16°.

Oliver Clinton Wendell.

Assistant in the Observatory, 1880—.

1. Photometric measurements of the variable stars β Persei and DM 81°25, made at the

Harvard College Observatory. [E. C. Pickering, Arthur Searle, and O. C. Wendell, observers.] *Proc. Am. Acad.*, April, 1881 ; xvi. 370.

2. Comet (b) 1881. *Science Observer*, Aug. 1881 ; iii. 81.
3. Photometric observations of the satellites of Mars, 1881-1882. [E. C. Pickering and O. C. Wendell, observers.] *Astronomische Nachrichten*, cii. 193.
4. Observations with the meridian photometer during the years 1879-1882. By E. C. Pickering, aided by Arthur Searle and O. C. Wendell. *Annals of the Astronomical Observatory*, xiv. 1884-1885. pp. viii., 512, plates 3.
- 5-13. In the *Astronomische Nachrichten* : 5. Observations of comet (c) 1879 (Swift). xvi. 21. — 6. Observations of comets 1881 v. and 1881 viii. ci. 231. — 7. Observations of comets 1880 iv. and 1881 ii. ci. 299. — 8. Observations of comets 1881 iii. iv. vi. ciii. 145. — 9. Elements of comet 1882, i. civ. 287. — 10. A convenient method of finding or identifying an asteroid. cvi. 205. — 11. Observations of meteors. 6 Dec. 1883 ; cviii. 433. — 12. Orbits of meteors. cxi. 189. — 13. Comet-meteor radiants. cxii. 321.

See also the contents of the *Science Observer* circulars given under Mr. Ritchie's name.

Henry Nathan Wheeler.

Instructor in Mathematics, 1877-1882.

1. Logarithms. Cambridge. 1882. 12°. pp. 43.
2. Revised and enlarged edition of Warren Colburn's "Intellectual arithmetic." (Mr. Wheeler was joint editor.) Boston. 1884. 16°. pp. 230.
3. Edited the Harvard University Catalogue for 1880-1881-1882-1883. Cambridge. 1880-1882. 8°.

Charles Joyce White.

Assistant Professor of Mathematics, 1870-1885 ; Professor of Mathematics, 1885—. *Registrar of the College Faculty.*

1. The elements of theoretical and descriptive astronomy, for the use of colleges and academies. Fifth edition, revised. New York. 1885. sm. 8°.

The first edition appeared in 1869.

James Clarke White.

Professor of Dermatology, 1871—.

1. Obituary of Professor Hebra. *Boston Med. and Surg. Journ.*, 9 Sept., 1880 ; ciii. 258.
2. The use of electrolysis in the treatment of hirsuties. *Ibid.*, 5 May, 1881 ; civ. 412.
3. Some of the causes of infantile eczema and the necessity of mechanical restraint in its treatment. *Ibid.*, 20 Oct. 1881 ; cv. 365.
4. The surgical diseases of the skin. In *Wood's Internat. Encyclopaedia of Surgery*. New York. 1881.

5. Chairman's address at the centennial celebration of Mass. Medical Society. *Trans. Mass. Med. Soc.*, 1881.
6. The limitations of internal therapeutics in skin diseases. *Arch. of Dermatology*, April, 1882; viii. 120-125.
7. The question of contagion in leprosy. *Am. Journ. of Med. Sciences*, Oct. 1882; new series, lxxxiv. 433-454. Also separately.
8. Leprosy. In *Pepper's System of Practical Medicine*. Philadelphia. 1885.
9. The old age of the skin. *Boston Med. and Surg. Journ.*, 23 Nov. 1882; cvii. 484-487.
10. Review of Hyde's "Diseases of the skin." *Am. Journ. of Med. Sciences*, July, 1883.
11. Unilateral chromidrosis. *Journ. of cutaneous and venereal diseases*, Oct. 1884.
12. Arsenical dermatitis. *Boston Med. and Surg. Journ.*, 6 Nov. 1884; cxi. 433-435.
13. Psoriasis—verruca—epithelioma; a sequence. *Am. Journ. of Med. Sciences*, Jan. 1885. Also separately. 8° pp. 10.

John Williams White.

Assistant Professor of Greek, 1877-1884; Professor of Greek, 1884—.

1. The Greek play at Harvard. *Harvard Register*, June, 1881; iii. 336-339.
2. The realia of Greek literature. *Addresses before the Mass. Classical and High School Teachers' Association*, 1883.
3. The question of a division of the philosophical faculty. By Dr. A. W. Hofmann. Second edition, with an appendix containing two opinions on the admission to the [Berlin] University of graduates of *Realschulen*. Boston. 1883. 16° pp. viii., 17.

The full title will be found on p. 9. Professor White wrote the preface and revised the translation.

- 4-6. College series of Greek authors, edited under the supervision of John Williams White, Lewis R. Packard, and Thomas D. Seymour. Boston. 1884, 1885. sq. 8°.

4. *Sophocles' Antigone*, edited by Martin L. D'Ooge. (Text edition of the same.)—5. *Aristophanes' Clouds*, edited by M. W. Humphreys. (Text edition of the same.)—6. *Plato's Apology of Socrates, and Crito*, edited by Louis Dyer. (Text edition of the same.)

- 7, 8. College series of Greek authors, edited under the supervision of John Williams White and Thomas D. Seymour. Boston. 1885. sq. 8°.

7. *Euripides' Bacchantes*, edited by J. T. Beckwith. (Text edition of the same.)—8. *Introduction to the language and verse of Homer*, edited by T. D. Seymour.

Harold Whiting.

Assistant in Physics, 1881-1883; Instructor in Physics, 1883—.

1. A paper on the propagation of magnetic waves in soft iron. (Contributions from the physical laboratory of Harvard College.) *Proc. Am. Acad.*, 1881; xvi. 322-341, plates 2.

2. A new theory of cohesion applied to the thermodynamics of liquids and solids. *Ibid.*, 1884; xix. 353-431, tables, pp. 33. Also separately.
3. Syllabus of a hundred physical measurements. A two years' course for the use of the Jefferson Physical Laboratory. Cambridge. 1885. sm. 4°.

Charles Otis Whitman.

Assistant in Zoölogy, 1882—.

1. A rare form of the blastoderm of the chick, and its bearing on the question of the formation of the vertebrate embryo. *Quart. Journ. Microscop. Science* (London), July, 1883; xxiii. 376.
2. The advantages of study in the Naples zoölogical station. *Science*, 27 July, 1883; i. 93-97.
3. On the development of some pelagic fish eggs. Preliminary notice. With A. Agassiz. (Contributions from the Newport marine zoölogical laboratory, xiv.) *Proc. Am. Acad.*, Aug. 1884; xx. 23-73, plate.
4. The external morphology of the leech. (Contributions from the zoölogical laboratory of the Museum of Comparative Zoölogy, iv.) *Ibid.*, Sept. 1884; xx. 76-87, plate.
5. The segmental sense-organs of the leech. *Am. Naturalist*, Nov. 1884; xviii. 1104.
6. The development of osseous fishes. i. The pelagic stages of young fishes. (Studies from the Newport marine zoölogical laboratory, xvi.) *Mem. Mus. Comp. Zool.*, 1885; xiv. 1, pt. i. pp. (2), 56, plates 19.
7. Methods of research in microscopical anatomy and embryology. Boston. 1885. 8°.
8. Edited the department of microscopy in the *American Naturalist* since January, 1883.

Josiah Dwight Whitney.

Sturgis-Hooper Professor of Geology, 1875—.

1. The climatic changes of later geological times: a discussion based on observations made in the Cordilleras of North America. *Mem. Mus. Comp. Zool.*, 1880-82; vii. 1, pp. xiv., 394.
2. The California geological survey. *Harvard Register*, April, 1881; iii. 202-204.
3. Geology of California. Vol. II. Appendix. (In continuation of the publications of the Geological Survey of California.) Cambridge. 1882. l. 8° pp. 148.
4. List of American authors in geology and palaeontology. (Bibliographical contributions reprinted from the Harvard University Bulletin, no. 15.) 1882. pp. 11.
5. The water birds of North America. By S. F. Baird, T. M. Brewer, and R. Ridgway. Issued in continuation of the publications of the Geological Survey of California. J. D. Whitney, state geologist. Vol. i., ii. Boston. pp. xii., 537; (6), 522. *Woodcuts* 457, in part colored. *Mem. Mus. Comp. Zool.*, 1884; xii., xiii.

6. The azoic system and its proposed subdivisions. With M. E. Wadsworth. *Bull. Mus. Comp. Zool.*, Aug. 1884; vii. 11, pp. xvi., 331-565.
7. The earth's treeless regions. *Science for all*, vol. v. London. 1885. pp. 124-133.
8. Lake Mistassini. *Science*, 2 Jan. 1885; v. 8-10.

William Fiske Whitney.

Curator of the Warren Anatomical Museum, 1879—.

1. Microscopic examination of portions of lung from American cattle killed in Liverpool, said to be affected with pleuro-pneumonia. In Prof. Lyman's Third report to Comm. of Agricult. *Ann. rept. Comm. of Agricult. for 1880*. Washington. 1881. 8°. pp. 575-579, plates 7.
2. The characteristic appearances of wounds of the intestines made during life. *Boston Med. and Surg. Journ.*, 21 July, 1881; cv. 54.
3. The inoculability of tuberculosis. *Ibid.*, 21 July, 1881; cv. 75-79.
4. On the existence of syphilis in America before the discovery by Columbus. *Ibid.*, 19 April, 1883; cviii. 365.
5. A case of actinomycosis in a heifer. *Ibid.*, 5 June, 1884; cx. 532.
6. Reports on recent progress in pathology and pathological anatomy. *Ibid.*, 1, 8 Dec. 1881; cv. 515, 536. — 18, 25 May, 1882; cvi. 462, 487. — 16, 30 Nov. 1882; cvii. 464, 513. — 17, 24 May, 1883; cviii. 463, 488. — 15, 29 Nov. 1883; cix. 491, 511. — 8, 15, 22 May, 1884; cx. 438, 462, 487. — 20, 27 Nov. 1884; cx. 487, 511. — 28 May, 18 June, 1885; cxii. 524, 597.

Edward Newton Whittier.

Assistant in Clinical Medicine, 1877-1881; *Instructor in the Theory and Practice of Physic*, 1881-1884; *Assistant Professor of Clinical Medicine*, 1884—.

1. Changes in the system of medical education. *Boston Med. and Surg. Journ.*, 27 Sept. 1883; cix. 289-292.
2. Abdominal tumors in children; six cases. *Ibid.*, 29 Nov. 1883; cix. 505-508.

Edward Wigglesworth.

Clinical Instructor in Syphilis, 1875-1881.

1. Digest of literature, new formations. *Arch. of Dermatol.*, Jan. 1881.
2. A new urethral syringe at last. *Boston Med. and Surg. Journ.*, 3 March, 1881; civ. 203.
3. Buccal ulcerations of constitutional origin. *Arch. of Dermatol.*, Jan. 1882. Also separately.
4. Purpura after quinine. *Boston Med. and Surg. Journ.*, 20 Dec. 1883; cix. 587.
5. Reports on the progress of dermatology. *Ibid.*, 7, 21 Oct. 1880; ciii. 346, 393. — 28 April, 1881; civ. 392. — 17 Nov. 1881; cv. 467.
6. Numerous reviews and book-notices in the *Boston Medical and Surgical Journal*.

Charles Herbert Williams.

Instructor in Ophthalmology in the School of Veterinary Medicine, 1884—.

1. An alloplastic operation. *Boston Med. and Surg. Journ.*, 14 Aug. 1884; cxi. 159.
2. Ocular anaesthesia produced by cocaine. *Ibid.*, 6 Nov. 1884; cxi. 440.
3. The use and care of the eyes, especially during school years. Boston. 1885.

Francis Henry Williams.

Instructor in Materia Medica in the Medical School, 1884-1885; *Instructor in Materia Medica and Therapeutics*, 1885—.

1. Ueber die Ursache der Blutdrucksteigerung bei der Digitalinwirkung. *Arch. f. experiment. Path. u. Pharmacol.*, 1880; xiii. 1.
2. Ueber acute Eisenwirkung. With Professor Meyer. *Ibid.*, 70.
3. A method for evacuating and irrigating the bladder and other parts. *Boston Med. and Surg. Journ.*, 30 June, 1881; civ. 610-612.
4. A study of the action of iron. *Ibid.*, 3 Aug. 1882; cvii. 105-108.
5. Reports on the progress in therapeutics. *Boston Med. and Surg. Journ.*, 20, 27 Sept. 1883; cix. 276, 296. — 22 Sept., 2 Oct. 1884; cxi. 300-324.
6. A text-book of pharmacology, therapeutics, and materia medica, by T. Lauder Brunton, M.D., F.R.S., adapted to the United States Pharmacopoeia by Francis H. Williams, M.D. Philadelphia. 1885.

Henry Willard Williams.

Professor of Ophthalmology, 1871—.

1. Continued toleration of foreign bodies within the eyeball for fifteen years and for twenty-two years. *Boston Med. and Surg. Journ.*, 27 Jan. 1881; civ. 84.
2. Addresses at Harvard College and at the dinner on the centennial anniversary of the Massachusetts Medical Society. *Ibid.*, 23 June, 1881; civ. 588.
3. The diagnosis and treatment of diseases of the eye. Boston. 1882. 8°.
4. Orbital cellulitis as a sequel of facial erysipelas. *Boston Med. and Surg. Journ.*, 18 Jan., 1883; cviii. 51-53.
5. Address on the one hundredth anniversary of the foundation of the Medical School of Harvard University, 17 Oct. 1883. *Addresses and exercises at the one hundredth anniversary*. Cambridge. 1884. 8°. p. 48.
6. Apparent and real amaurosis. *Boston Med. and Surg. Journ.*, 18 Dec. 1884; cxi. 577-580.

Justin Winsor.*Librarian of the University, 1877—.*

1. The memorial history of Boston, including Suffolk Co., Mass., 1630-1880. Vol. ii.-iv. Boston. 1881, 1882. 4°.

Editor, and writer of the following sections:—

1. Estates, sites and maps of Boston. Vol. ii. pp. i.-lviii.
2. Maps of the revolutionary period. Vol. ii. pp. i.-xii.
3. Libraries in Boston. Vol. iv. 279-294.
4. Supplementary notes to the following chapters: Siege of Boston (iii. 101-118); Life in Boston in the revolutionary period (iii. 175-188); Topography and landmarks of the last hundred years (iv. 64-68).
2. Halliwelliana: a bibliography of the publications of James Orchard Halliwell-Phillips. (Bibliographical contributions of the Harvard College Library, no. 10.) 1881. pp. 30.
3. Governor Bradford's ms. history of Plymouth Plantation. Cambridge. 1881. 8°.

Reprinted from the *Proc. Mass. Hist. Soc.*, Nov. 1881; xix. 106-122.

4. Massachusetts. Boston. 1882. 16°.
- This was printed to secure copyright and was subsequently embodied in the 9th ed. of the *Encyclopaedia Britannica*.
5. Memoir of the Hon. Solomon Lincoln. *Proc. Mass. Hist. Soc.*, Sept. 1882; xix. 381-384.
6. Address at the dedication of the library at the University of Michigan. Ann Arbor. 1883. 8°.
7. Bibliography of Ptolemy's Geography. (Bibliogr. contrib. no. 18.) Cambridge. 1884. 8° pp. 42.
8. The Kohl collection of early maps. *Incomplete*. (Bibliogr. contrib. no. 19.) *Harvard University Bulletin*, nos. 26—; Oct. 1883—.
9. President's annual address before the American Library Association, 1881-1883. *Library Journal*, April, 1881; vi. 63, 64 (Washington conference, Feb. 1881); — July, Aug. 1882; vii. 123, 124 (Cincinnati conference, May, 1882); — Sept., Oct. 1883; viii. 163-165 (Buffalo conference, Aug. 1883).
10. Edited the *Library and Harvard University Bulletin*, nos. 16-31; Oct. 1880—May 1885.

Mr. Winsor is the author of a number of bibliographical and cartographical notes in the *Bulletin*.

11. Edited Bibliographical contributions republished from the *Bulletin* of Harvard University, nos. 7, 8, 10, 12-16, 18, 20. (See p. 4.)
12. Third—eighth (1880-1885) report of the Library of Harvard College.

Included in the annual report of the President, and also printed separately.

John Eliot Wolff.*Assistant in Geology, 1881-1882.*

1. The great dike at Hough's Neck, Quincy, Mass. *Bull. Mus. Comp. Zool.*, July, 1882; vii. 231-242.

2. Notes on the petrography of the Crazy Mts., and other localities in Montana Territory. (Northern Transcontinental Survey, Raphael Pumpelly, Director.) Heidelberg. 1885. 8°. pp. 19.
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4. Nephelingeite in den Vereinigten Staaten. *Neues Jahrbuch für Mineralogie*, 1885; p. 69.

Edward Stickney Wood.*Professor of Chemistry, 1876—.*

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2. Arsenic as a domestic poison. *Fifth ann. report of the State Board of Health, Lunacy and Charity of Mass. Supplement, containing the report and papers on public health*. Boston. 1884. 8°. pp. 213-267, with 36 samples.
3. Wharton and Stillé's "Medical jurisprudence." 4th ed. Edited by Robert Amory, A.B., M.D., and Edward S. Wood, A.M., M.D. Vol. ii. Poisons. Philadelphia. 1884.
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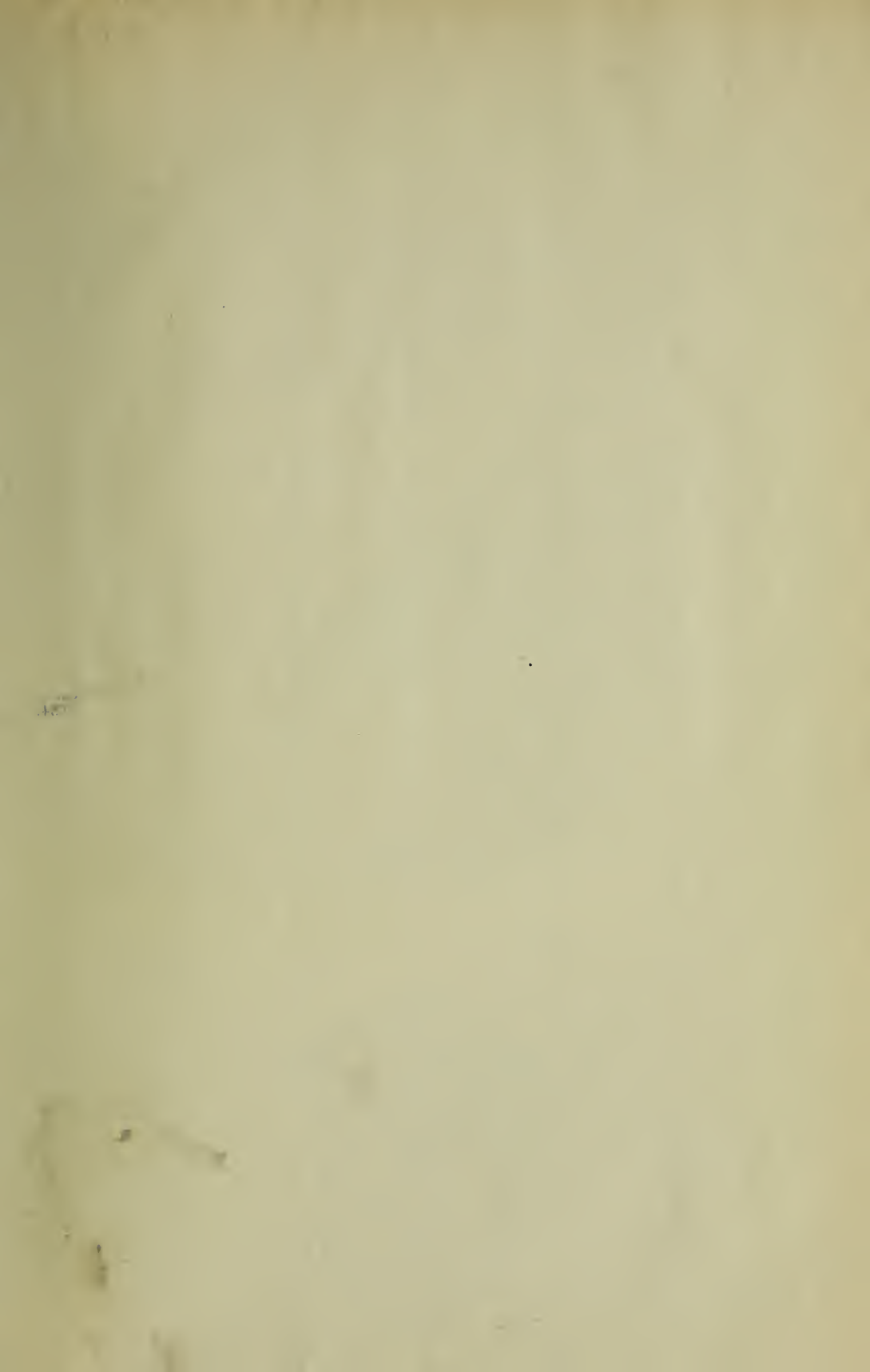
Charles Pomeroy Worcester.*Assistant in Chemistry, 1883-1884.*

1. On the vapor-density of the chloride, the bromide, and the iodide of antimony. *Proc. Am. Acad.*, 1883; xviii. 61-64.

Belongs to the series *Contributions from the chemical laboratory of Harvard College*.**Abram Van Eps Young.***Assistant in Chemistry, 1884-1885.*

1. Review of Thomsen's "Thermochemical researches," vol. ii., iii. *Am. Chem. Journ.*, July, 1884; vi. 202.
2. A thermochemical analysis of the reaction between alum and potassium hydrate. *Proc. Am. Acad.*, June, 1885; xxi. 201-221, plates 2.

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